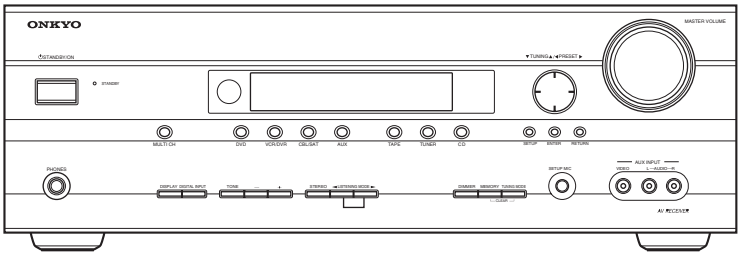
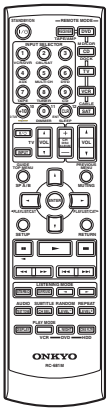
Ref. No. 4028
092007

ONKYO SERVICE MANUAL

AV RECEIVER
MODEL HT-R557





RC-681M

HT-R557 for HT-SP904 Black model

B MDD	120V AC, 60Hz

HT-R557 for HT-SR750 Black model

B MDD	120V AC, 60Hz

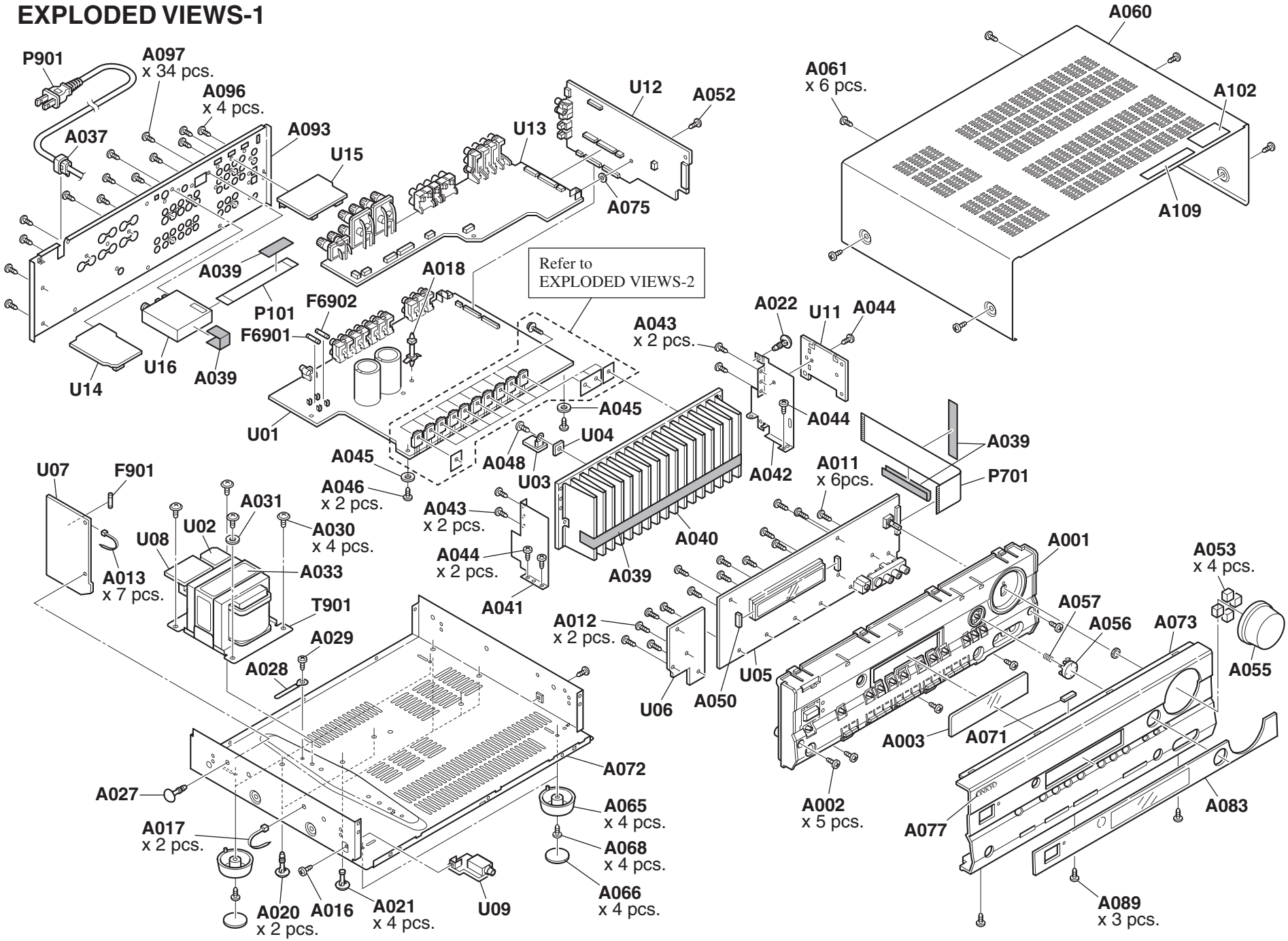
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

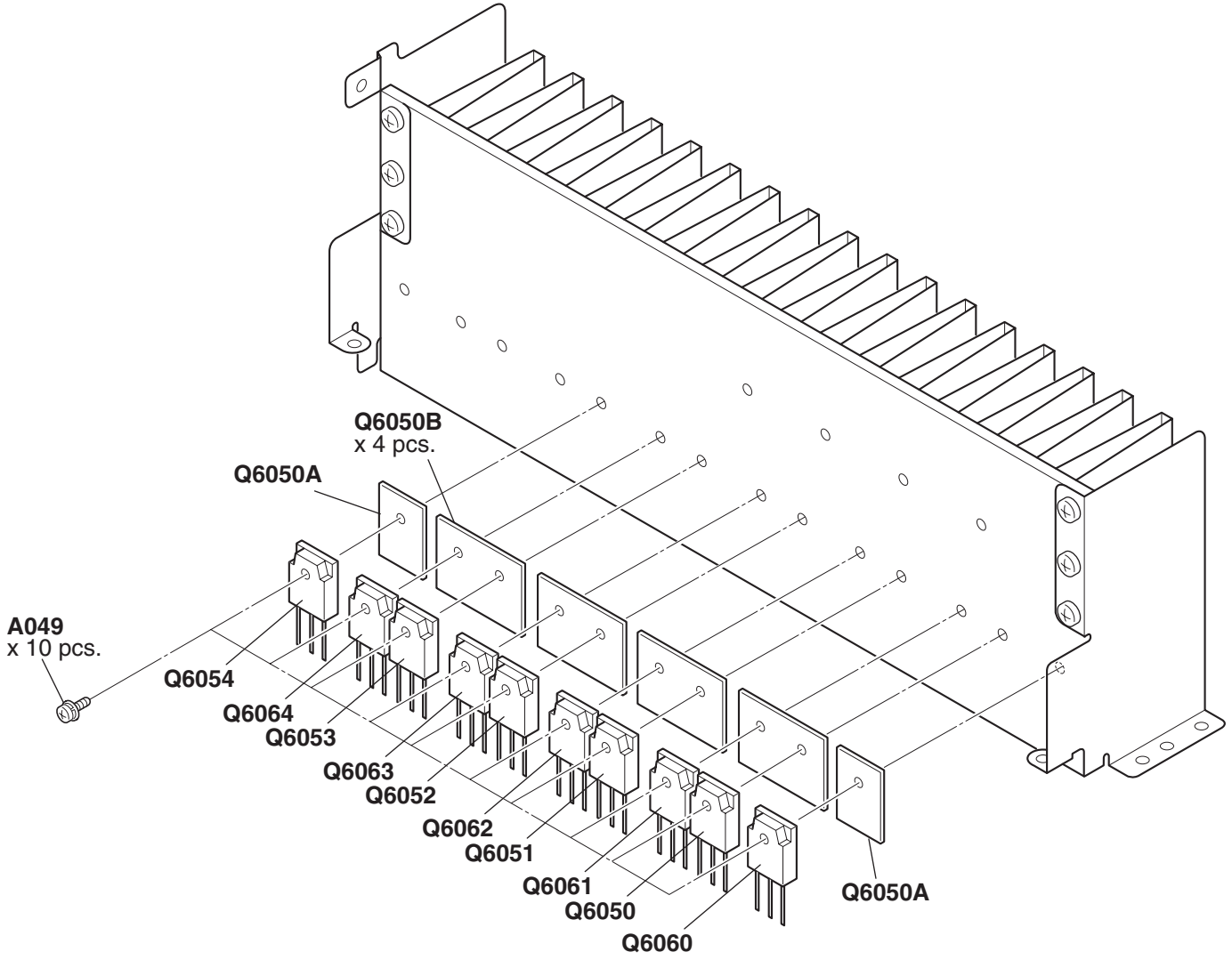
MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

ONKYO®
IMAGINATIVE SIGHT & SOUND

EXPLODED VIEWS-1



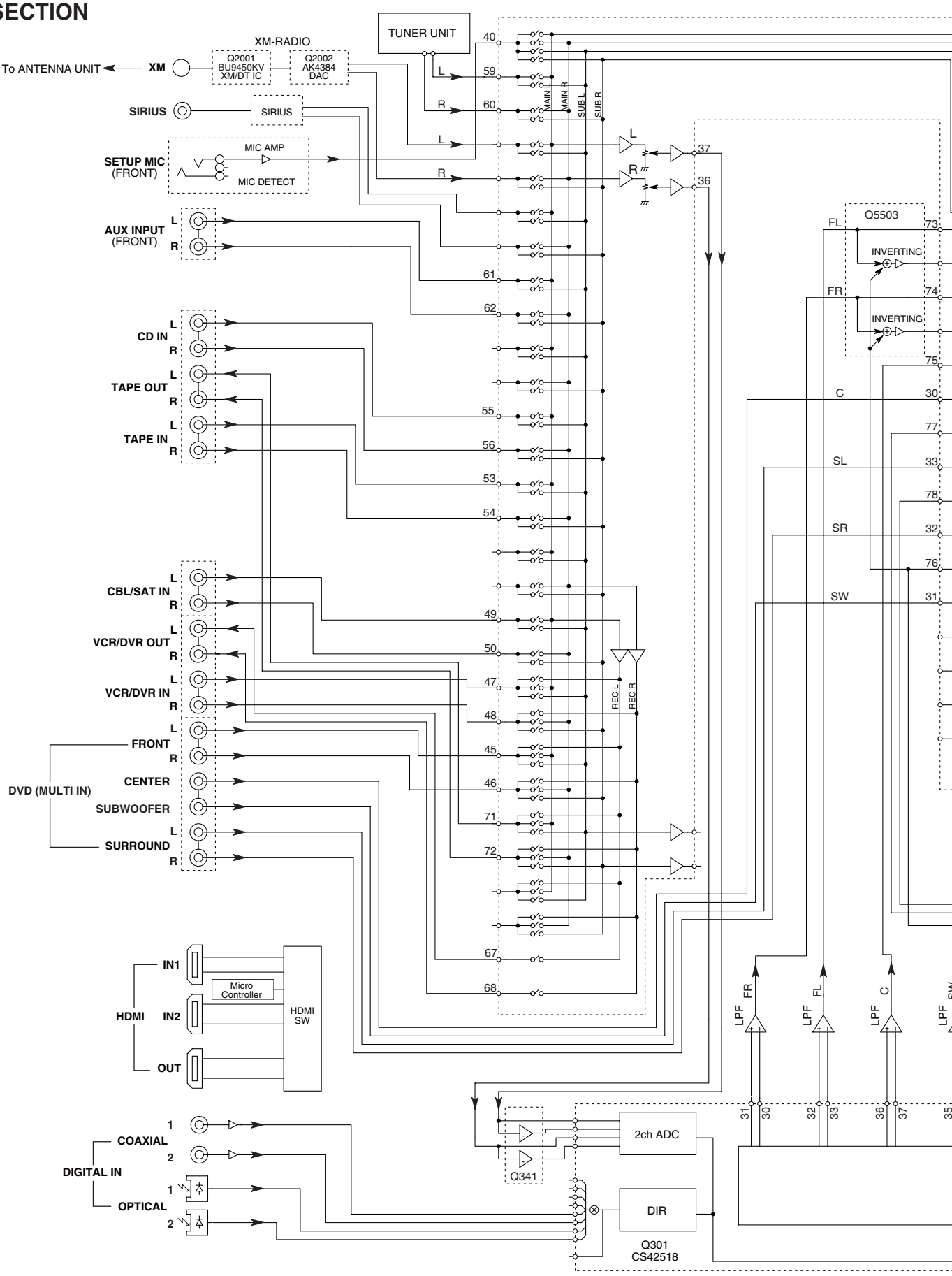
EXPLODED VIEWS-2



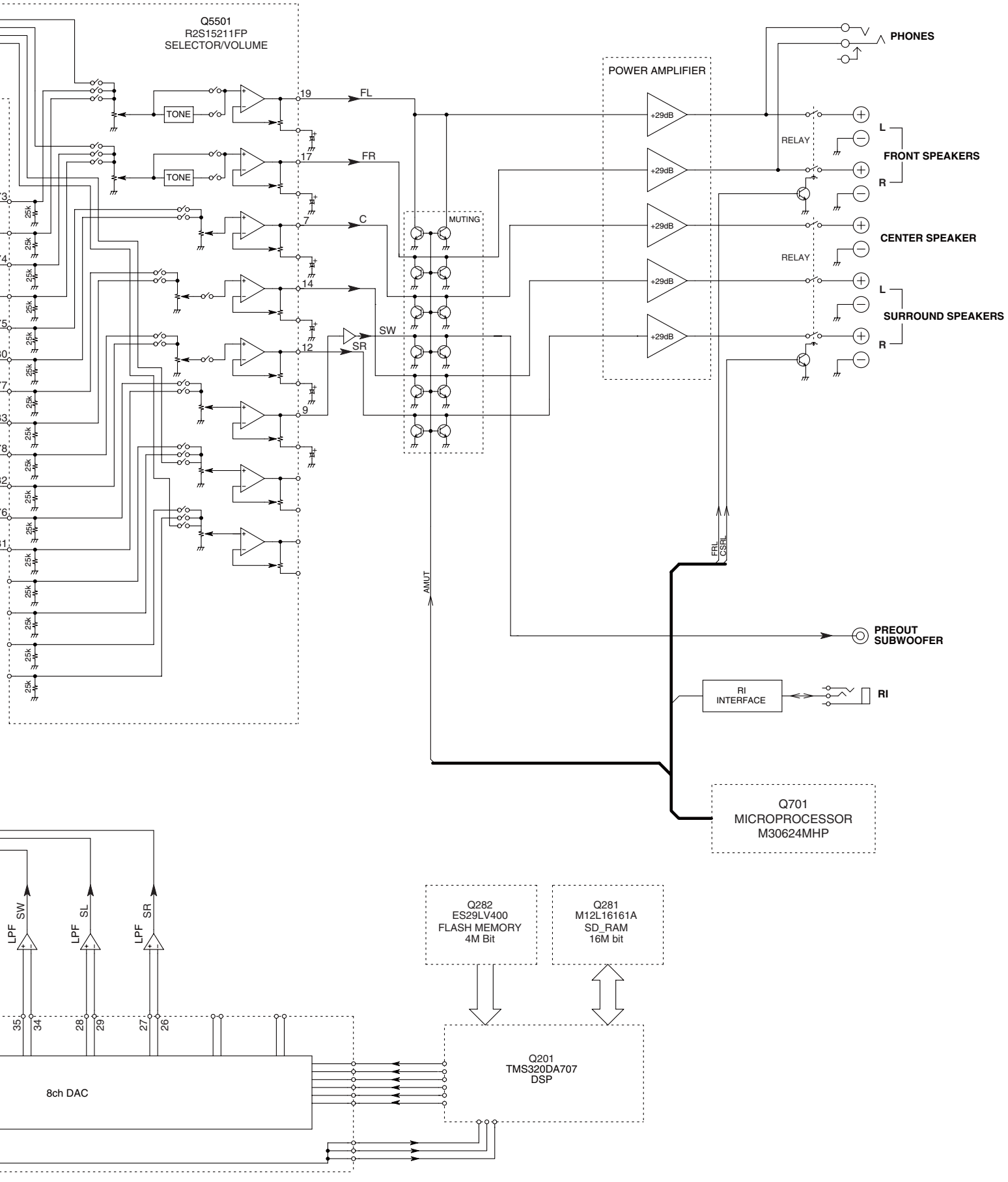
HT-R557

BLOCK DIAGRAMS-1

AUDIO SECTION

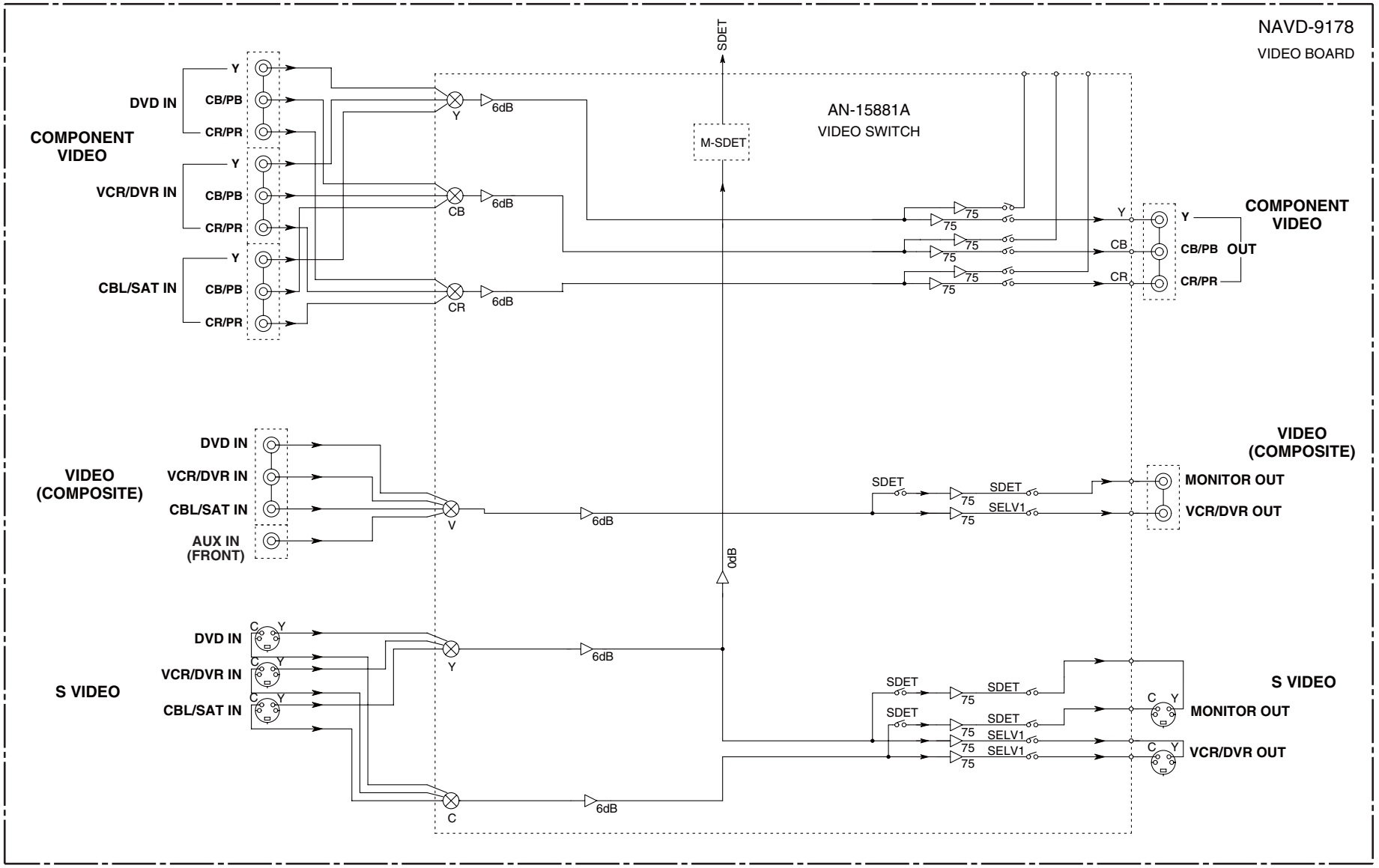


E F G H


Q5501
R2S15211FP
SELECTOR/VOLUME
TONE
TONE
19
17
7
14
12
9
FL
FR
C
SW
SR
MUTING
POWER AMPLIFIER
+29dB
+29dB
+29dB
+29dB
+29dB
RELAY
RELAY
PHONES
L
FRONT SPEAKERS
R
CENTER SPEAKER
L
SURROUND SPEAKERS
R
AMUT
FRL
CSRL
PREOUT
SUBWOOFER
RI
INTERFACE
RI
Q701
MICROPROCESSOR
M30624MHP
Q282
ES29LV400
FLASH MEMORY
4M Bit
Q281
M12L16161A
SD_RAM
16M bit
LPF SW
LPF SL
LPF SR
35
34
28
29
27
26
8ch DAC
Q201
TMS320DA707
DSP

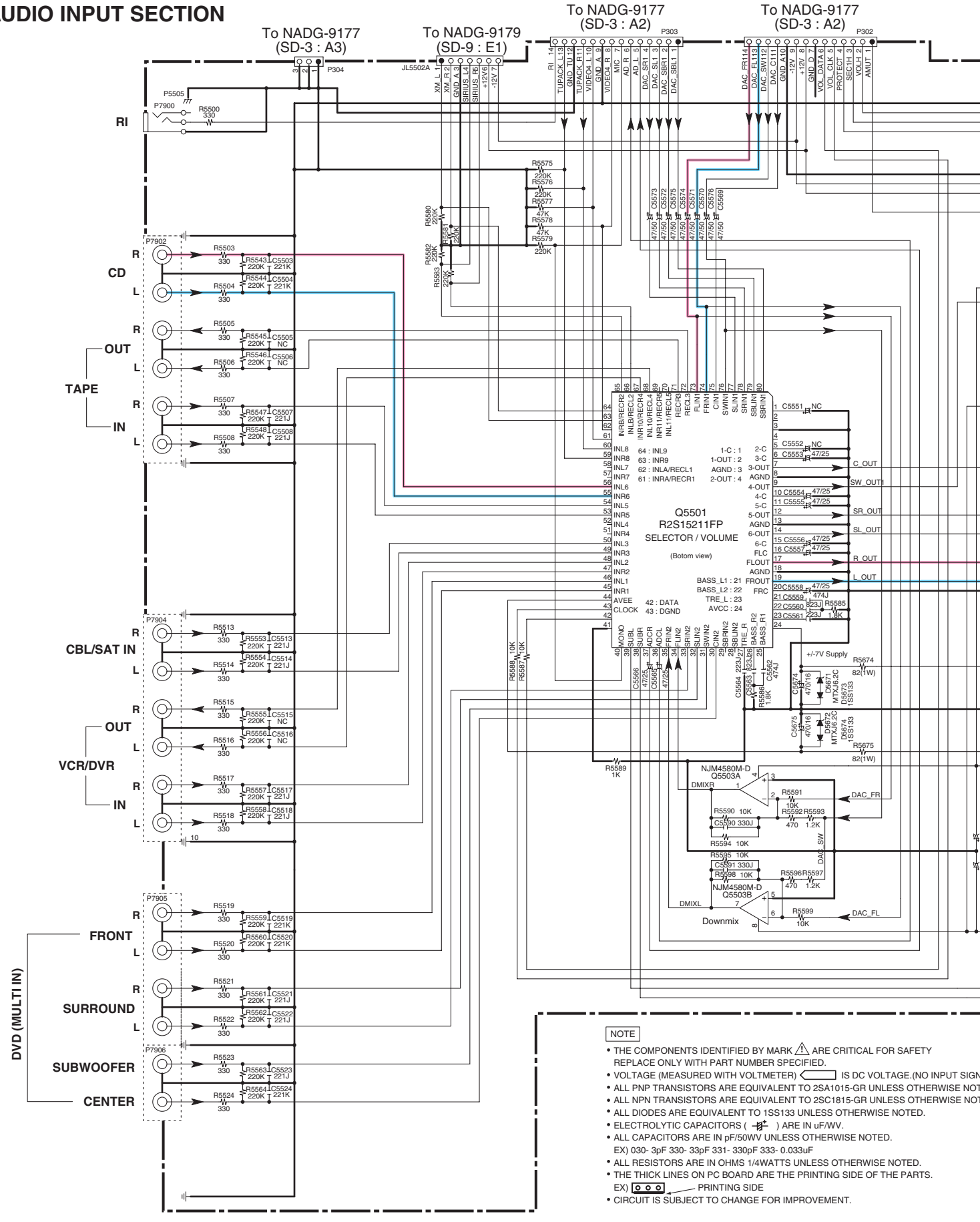
BLOCK DIAGRAMS-2

VIDEO SECTION



SCHEMATIC DIAGRAMS-1

AUDIO INPUT SECTION



NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟨ ▭ IS DC VOLTAGE.(NO INPUT SIGN
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOT
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOT
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ooo ⟵ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

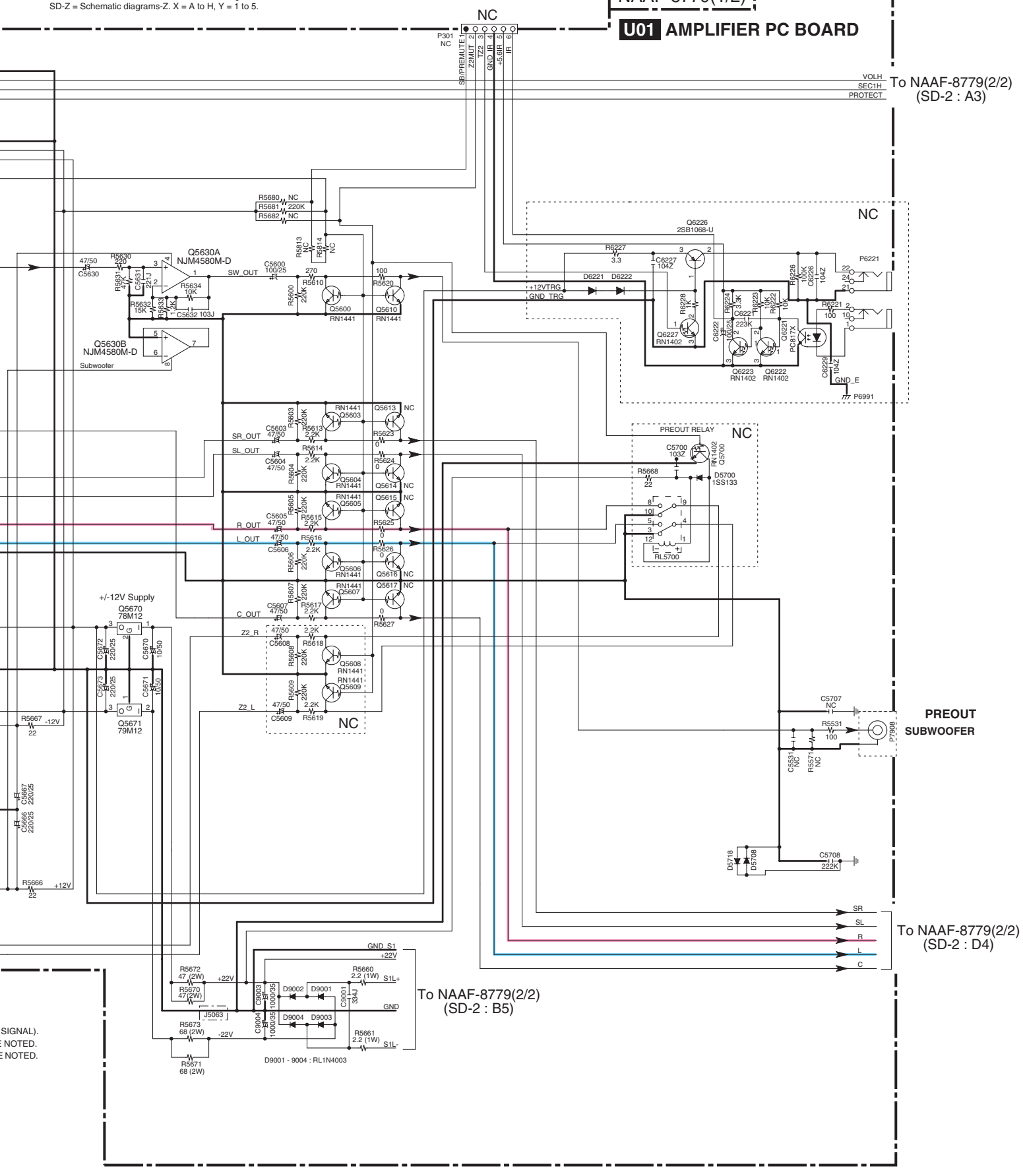
E F G H

<Note>
NC = No mount of parts.
SD-Z : XY
Location of connected terminal in schematic diagrams.
SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

FRONT Lch
FRONT Rch

NAAF-8779(1/2)

U01 AMPLIFIER PC BOARD



SIGNAL).
E NOTED.
E NOTED.

SCHEMATIC DIAGRAMS-2

POWER AMPLIFIER SECTION

NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS ( ) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED. EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
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<Note>

NC = No mount of parts.

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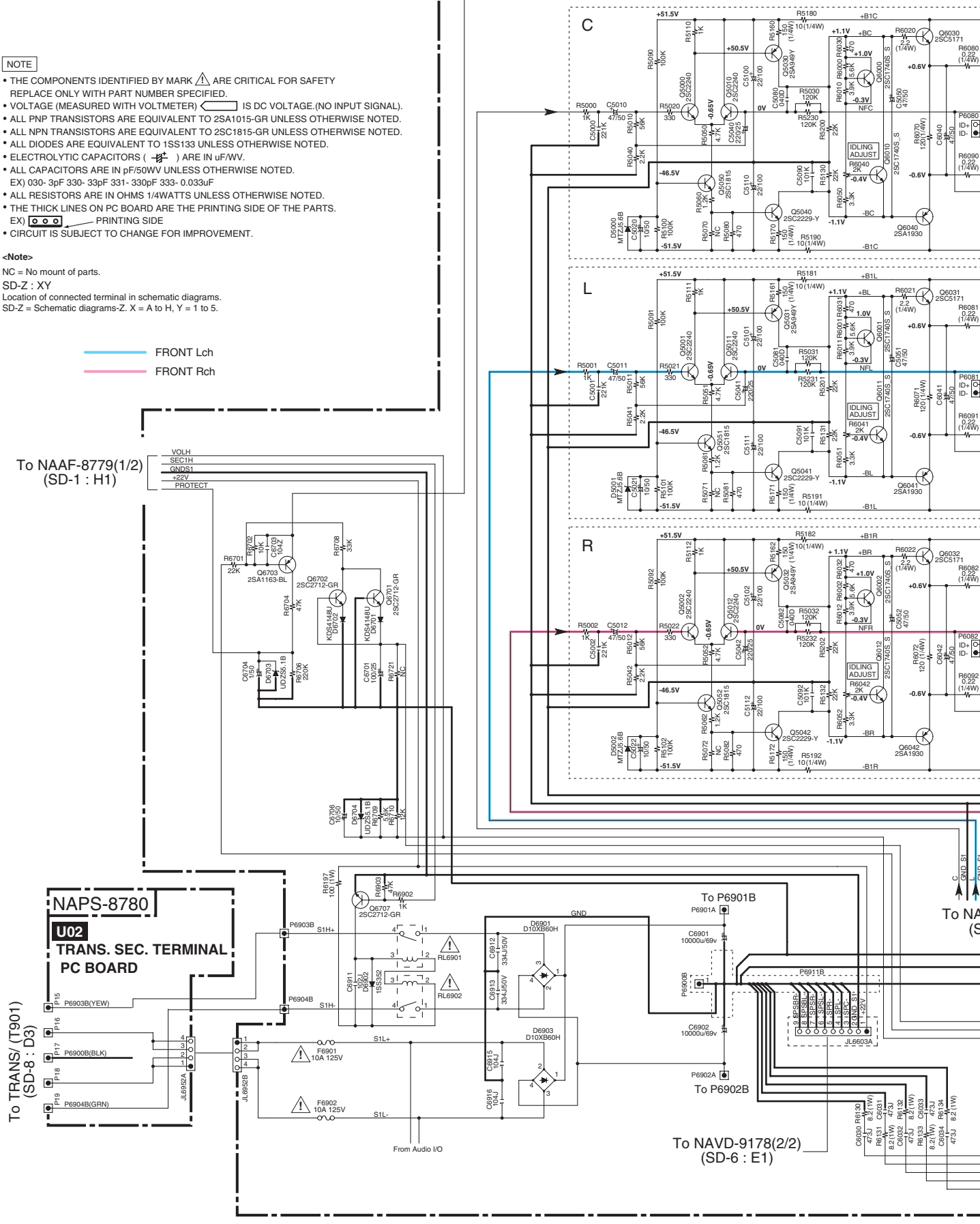
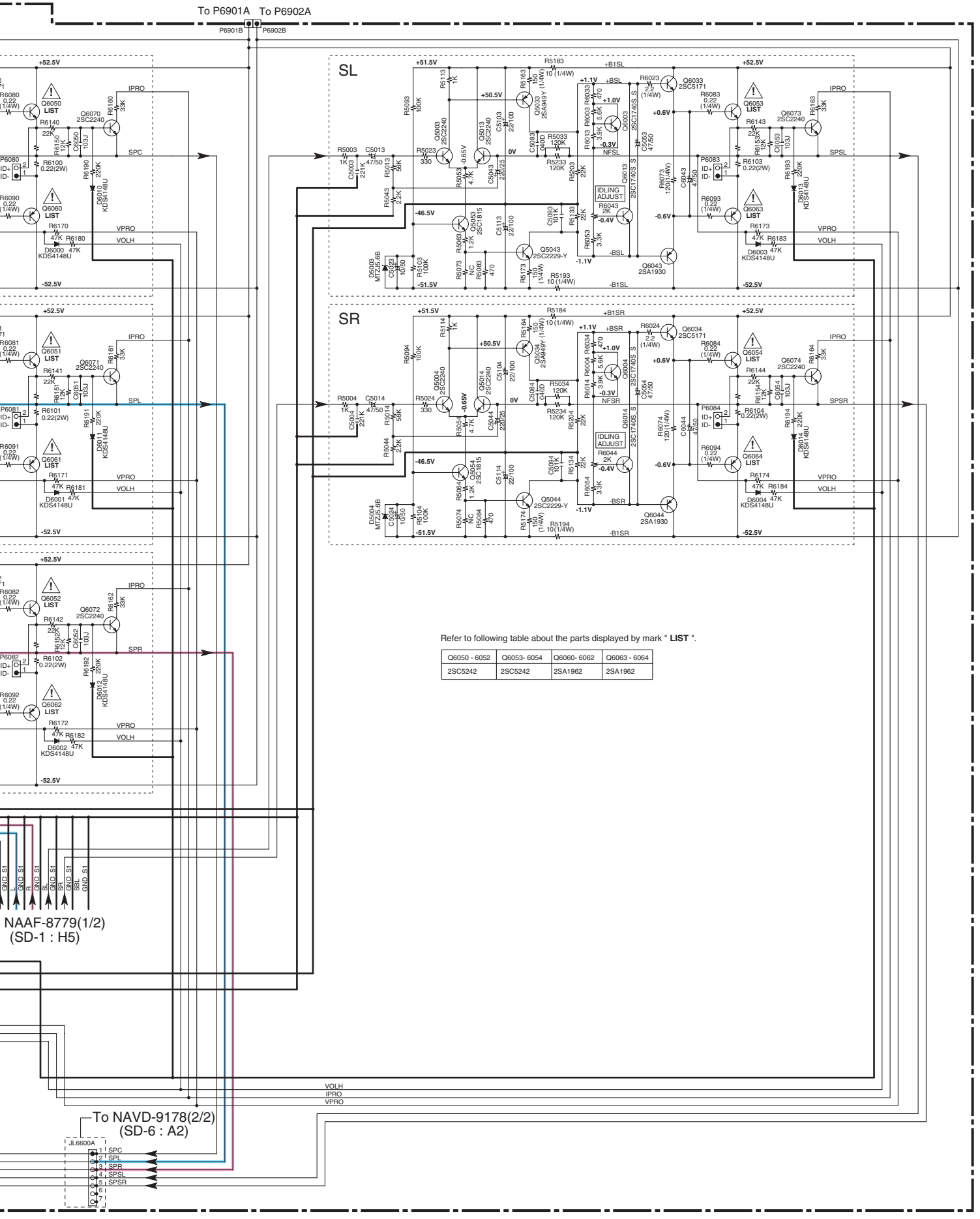
FRONT Lch
FRONT Rch

NAAF-8779(2/2) **U01 AMPLIFIER PC BOARD**



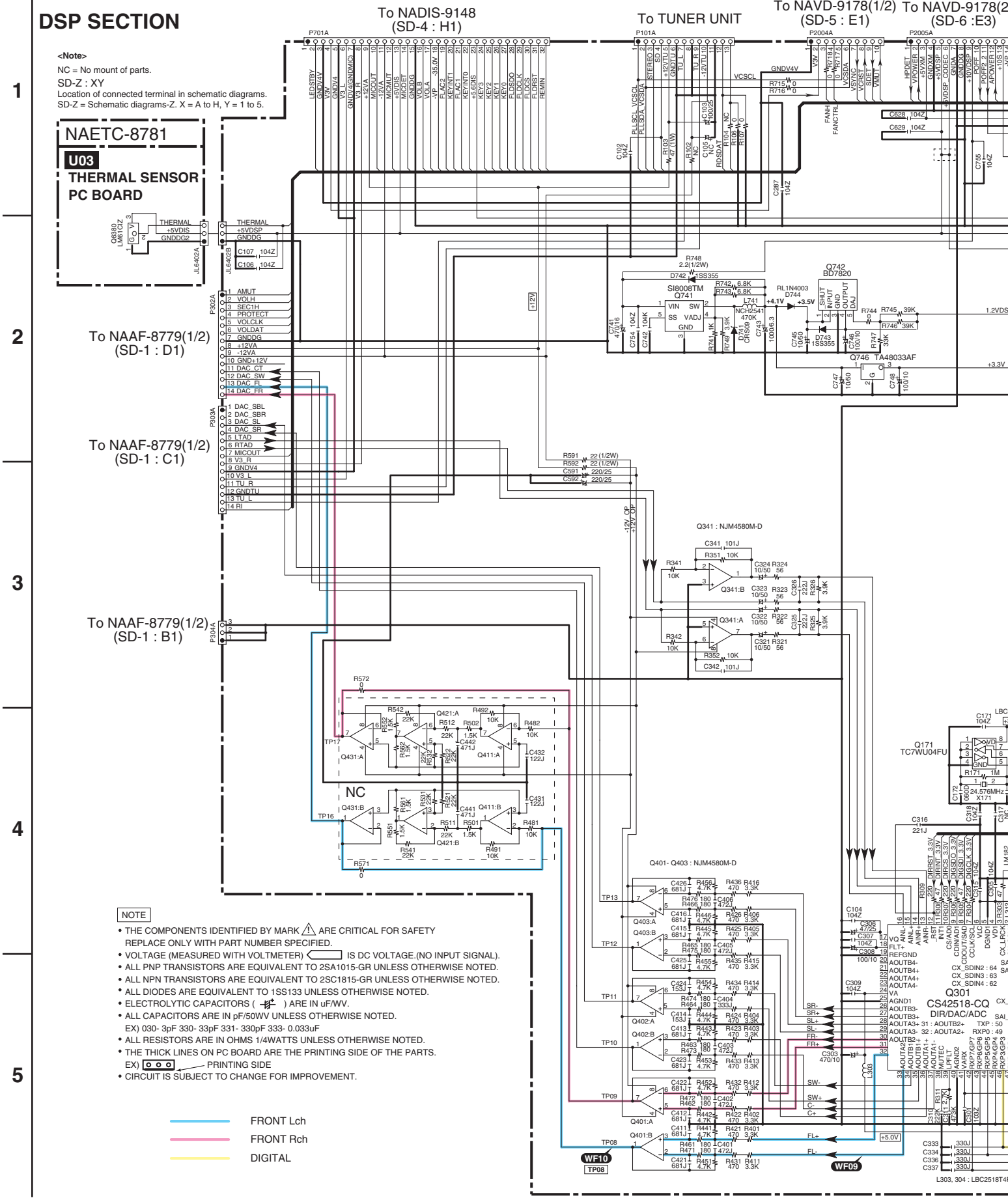


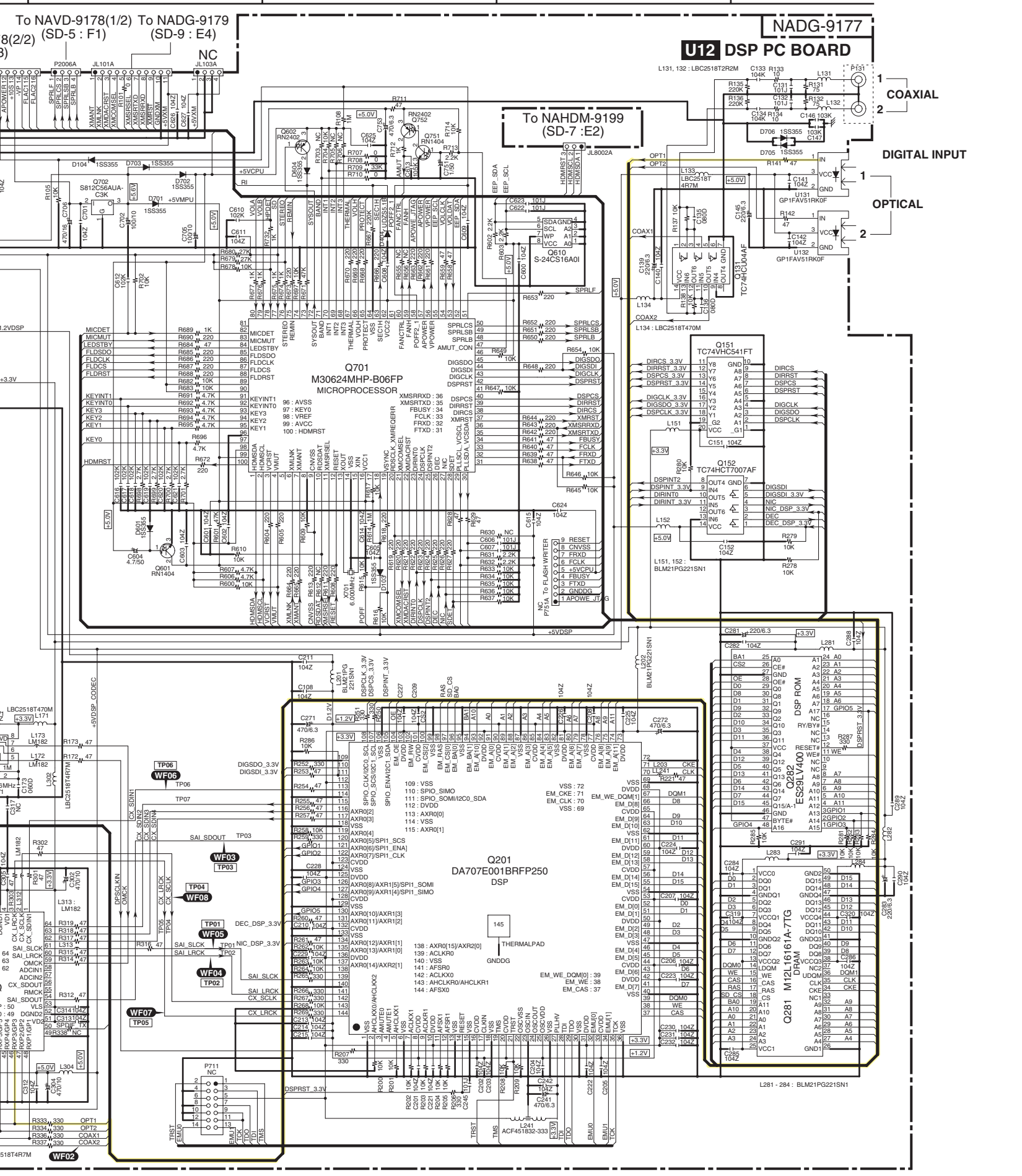
Refer to following table about the parts displayed by mark " **LIST** ".

Q6050 - 6052	Q6053- 6054	Q6060- 6062	Q6063 - 6064
2SC5242	2SC5242	2SA1962	2SA1962

SCHEMATIC DIAGRAMS-3

DSP SECTION




E
F
G
H
To NAVD-9178(1/2) (SD-5 : F1)
To NADG-9179 (SD-9 : E4)
NC
NADG-9177
U12 DSP PC BOARD
To NAHDM-9199 (SD-7 :E2)
COAXIAL
DIGITAL INPUT
OPTICAL
Q701
M30624MHP-B06FP
MICROPROCESSOR
Q201
DA707E001BRFP250
DSP
Q282
ES29LV400
Q281
M12L16161A-7TG
DRAM
DSP ROM
Q151
TC74VHC541FT
Q152
TC74HCT7007AF
Q610
S-24CS16A0I
Q702
S812C56AUA-C3K
Q751
RN1404
Q752
RN2402
Q601
RN1404
Q602
RN2402
Q131
GP1FAV51RK0F
Q132
GP1FAV51RK0F
Q151
TC74VHCU04AF
P2006A
JL101A
JL103A
JL8002A
P131
P711
NC
P714A To FLASH WRITER
X701
6.000MHz
L241
ACF451832-333
L281 - 284 : BLM21PG221SN1
L131, 132 : LBC2518T2R2M
L134 : LBC2518T470M
L151, 152 : BLM21PG221SN1
L2518T4R7M
L2518T470M
WF02
WF03
WF04
WF05
WF06
WF07
WF08
TP01
TP02
TP03
TP04
TP05
TP06
TP07
DIGSDO_3.3V
DIGSDI_3.3V
DEC_DSP_3.3V
NIC_DSP_3.3V
SAI_SDOUT
SAI_SCLK
SAI_LRCK
CX_LRCK
CX_SCLK
CX_SDIN1
DSPRST_3.3V
+5VDSP
+5VDSP CODEC
+5VCPU
+5VMPU
+5VXM
+3.3V
+1.2V
+5.0V
COAX1
COAX2
OPT1
OPT2
SPRLF
SPRLCS
SPRLSB
SPRLB
AMUT_CON
EEP_SDA
EEP_SCL
RI
MICDET
MICMUT
LEDSTBY
FLDSDO
FLDCLK
FLDCS
FLDRST
KEYINT1
KEYINT0
KEY3
KEY2
KEY1
KEY0
HDMRST
HDMSDA
HDMSCL
VCRST
VMUT
XMLNK
XMANT
CNVSS
RDSDAT
XMSRSEL
XMSRXD
XMSRTXD
RESET
XOUT
XIN
VCC1
VSYNC
RDSCLK
XMCOMSEL
XMDACRST
DIRINT0
DSPCLK
DSPINT2
DEC
NIC
SDET
PLLSDA
PLLSCL
VCSDA
VCSCL
DSPCS
DIRRST
DIRCS
XMRST
FBUSY
FCLK
FRXD
FTXD
XMSRRXD
XMSRTXD
DIGSDO
DIGSDI
DIGCLK
DSPRST
DIRCS_3.3V
DIRRST_3.3V
DSPCS_3.3V
DSPRST_3.3V
DIGCLK_3.3V
DIGSDO_3.3V
DSPCLK_3.3V
DIRINT0_3.3V
DIRIINT_3.3V
DSPINT2_3.3V
DIGSDI_3.3V
NIC_DSP_3.3V
DEC_DSP_3.3V
SPIO_CLK/I2C0_SCL
SPIO_SCS/I2C1_SCL
SPIO_ENA/I2C1_SDA
SPIO_SIMO
SPIO_SOMI/I2C0_SDA
AXR0[2]
AXR0[3]
AXR0[4]
AXR0[5]/SPI1_SCS
AXR0[6]/SPI1_ENA]
AXR0[7]/SPI1_CLK
AXR0[8]/AXR1[5]/SPI1_SOMI
AXR0[9]/AXR1[4]/SPI1_SIMO
AXR0[10]/AXR1[3]
AXR0[11]/AXR1[2]
AXR0[12]/AXR1[1]
AXR0[13]/AXR1[0]
AXR0[14]/AXR2[1]
AXR0[15]/AXR2[0]
AHCLKX0/AHCLKX2
AHCLKR0
AHCLKR1
ACLKX0
ACLKR0
ACLKR1
AFSX0
AFSX1
AFSR0
AFSR1
ACLKX0
EM_CKE : 71
EM_CLK : 70
EM_WE_DQM[0] : 39
EM_WE : 38
EM_CAS : 37
EM_WE_DQM[1]
THERMALPAD
GNDDG
RESET
TRST
TMS
TDI
TDO
EMU0
EMU1
TCK

SCHEMATIC DIAGRAMS-4

DISPLAY SECTION

NOTE

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- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
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- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED. EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
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- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

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SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

NADIS-9148 **U05** DISPLAY PC BOARD

Q7001
16BT128GNK FL TUBE

Q7003
M66005
FL DRIVER

Q7004
2SC2458

R7001
100K

C7001
223Z

R7008
270K

C7007
101J

C7008
100/10

C7009
104J

C7002 104J R7002 3.3K FLDRST
C7003 101J R7003 3.3K FLDCS
C7004 101J R7004 220 FLDCLK
C7005 101J R7005 220 FLDSDO

NC
J7011

R7012
0

R7010
220

Q7006
DTC114ES

NC

NC

NC

NC

P7302

JL7101A

JL7101B

9 CEC_LED
8 STBYLED
7 ZONELED
6 GNDCPU
5 +BLED
4 LEDPURE
3 KEY0_2
2 KEYINT0
1

U06 SWITCH PC BOARD NADIS-9149

Q7405
DTA114ES

J7207

SEL2910A-TP6
D7413

R7415
100

J7208

SLI-343URC
D7152

D7151

STANDBY

R7151
2.2K

Q7151
NC

D7154 NC

D7153 NC

R7152
NC

Q7406
DTA114ES

R7416
*180

R7154
180

D7155
SLR-342MGTE7P
ZONE 2

Q7152
DTC114ES

J7212

NC

NC

R7103
560

R7104
820

R7105
1.2K

S7107

S7108 STANDBY

S7109
NC

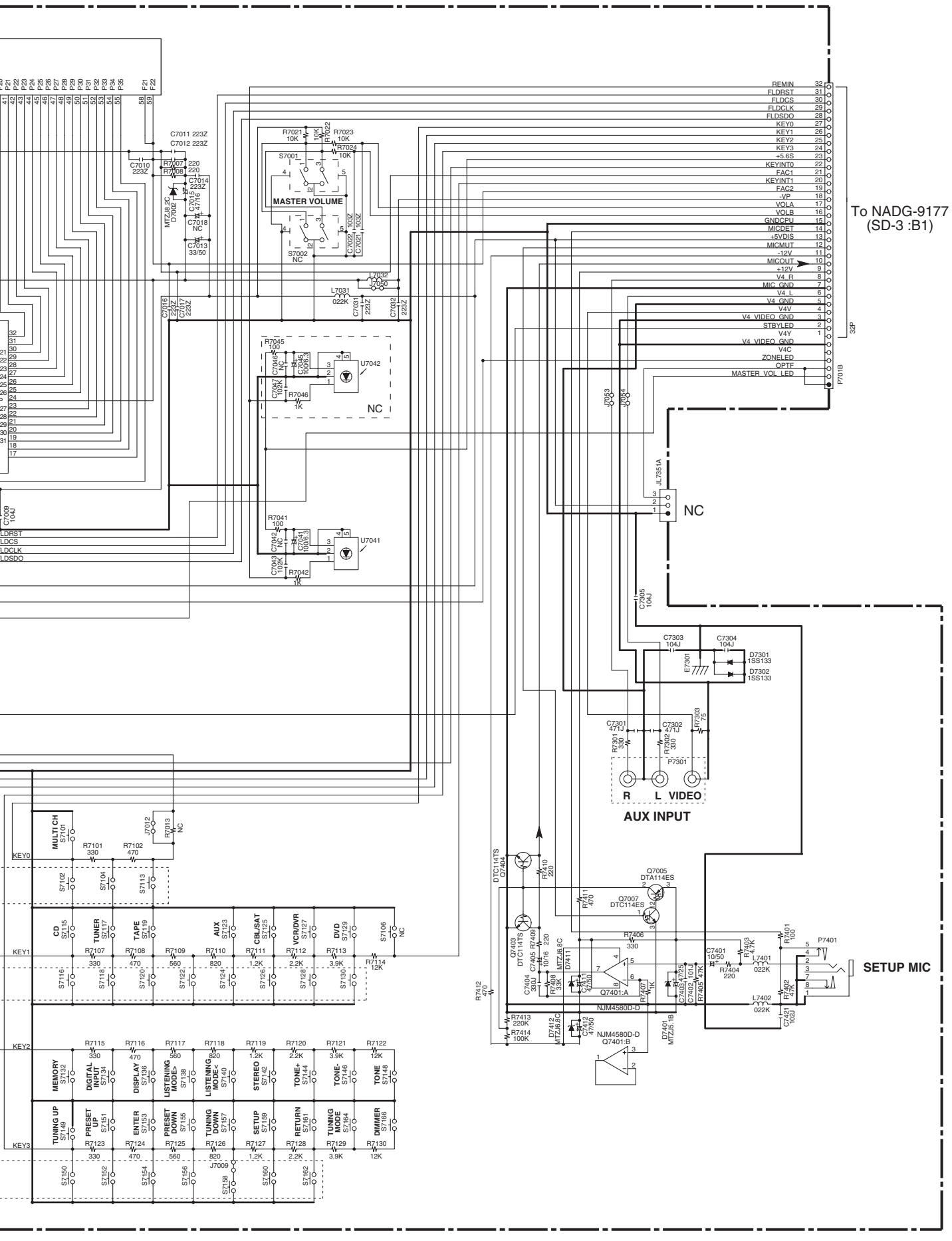
S7110

S7112

S7114

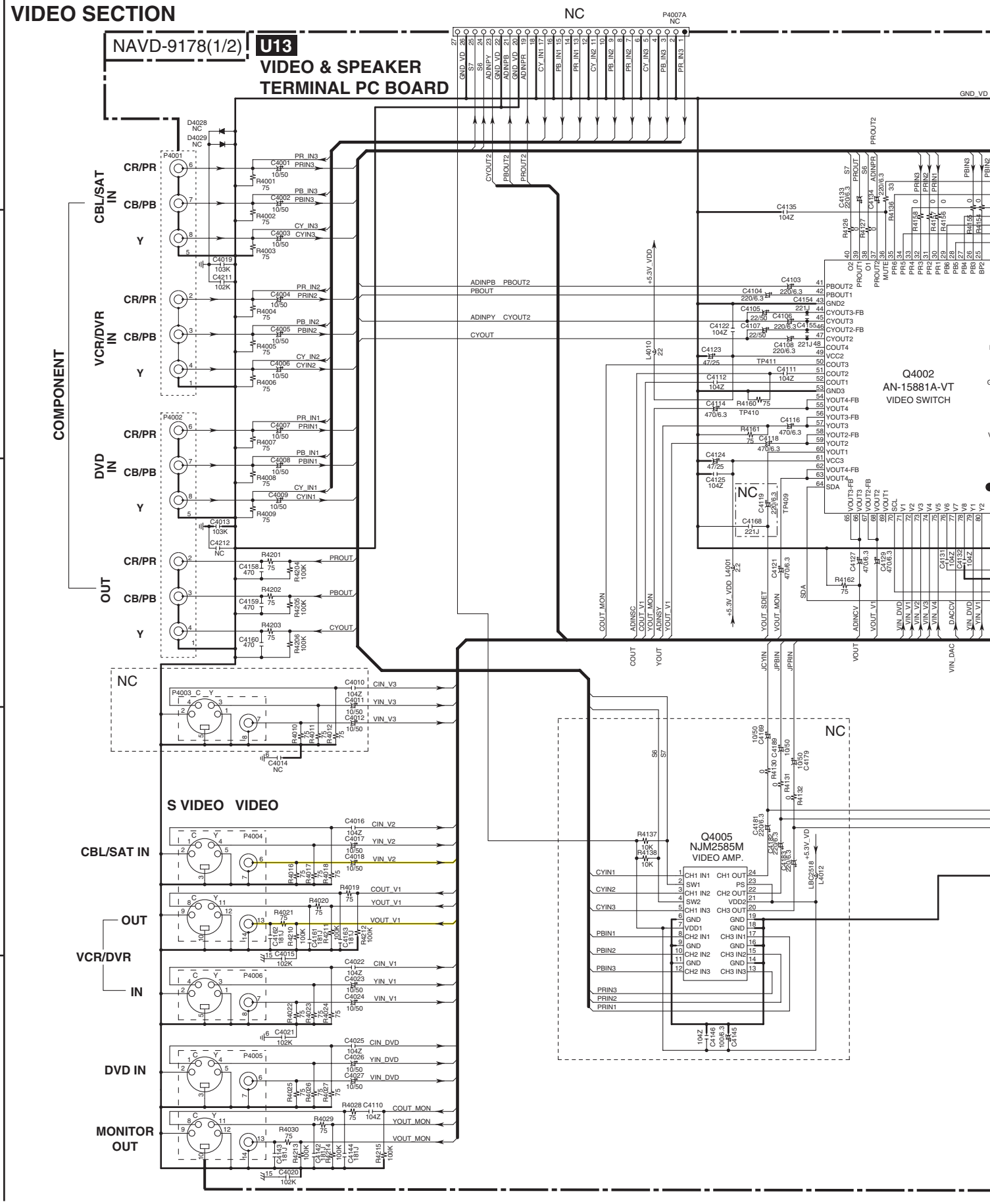
NC

E F G H

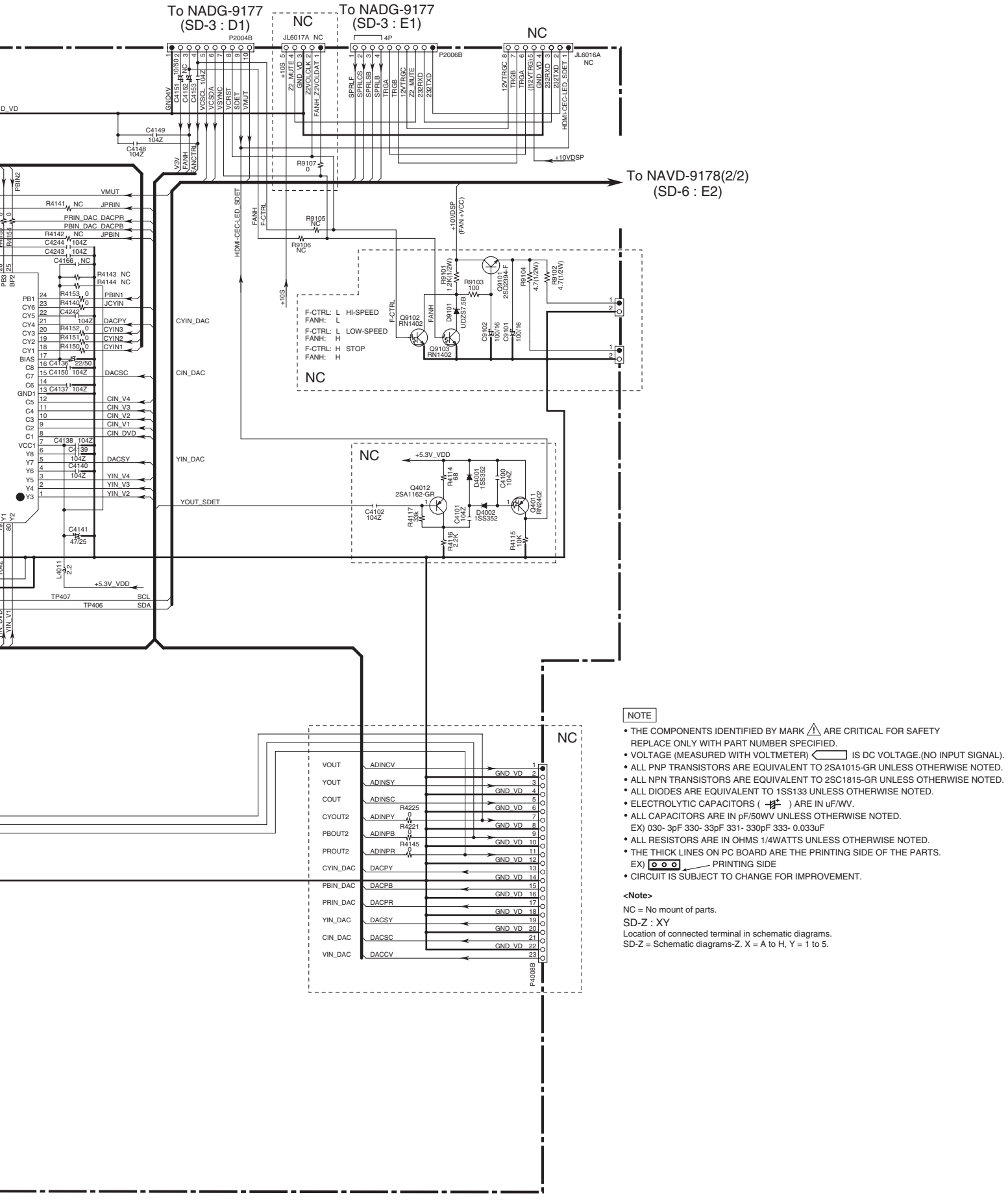

REMIN 32
FLDRST 31
FLDCS 30
FLDCLK 29
FLDSDO 28
KEY0 27
KEY1 26
KEY2 25
KEY3 24
+5.6S 23
KEYINT0 22
FAC1 21
KEYINT1 20
FAC2 19
-VP 18
VOLA 17
VOLB 16
GNDCPU 15
MICDET 14
+5VDIS 13
MICMUT 12
-12V 11
MICOUT 10
+12V 9
V4_R 8
MIC_GND 7
V4_L 6
V4_GND 5
V4V 4
V4_VIDEO_GND 3
STBYLED 2
V4Y 1
V4_VIDEO_GND 0
V4C
ZONELED
OPTF
MASTER_VOL_LED
P701B
32P
To NADG-9177 (SD-3 :B1)
MASTER VOLUME
S7001
S7002 NC
C7011 223Z
C7012 223Z
C7010 223Z
R7007 220
R7008 220
C7014 223Z
C7015 47/16
C7018 NC
C7013 33/50
MTZJ8.2C D7002
R7021 10K
R7022 10K
R7023 10K
R7024 10K
C7022 103Z
C7021 103Z
L7032
J7050
L7031 022K
C7016 223Z
C7017 223Z
C7031 223Z
C7032 223Z
R7045 100
C7045 NC
C7046 103Z
U7042
C7047 102K
R7046 1K
NC
R7041 100
C7042 NC
C7041 103Z
U7041
C7043 102K
R7042 1K
C7009 104J
LDRST
LDCS
LDCLK
LDSDO
J7053
J7054
JL7351A
NC
C7305 104J
C7303 104J
C7304 104J
E7301
D7301 1SS133
D7302 1SS133
C7301 471J
C7302 471J
R7303 75
R7301 330
R7302 330
P7301
R L VIDEO
AUX INPUT
J7012
R7013 NC
MULTI CH S7101
R7101 330
R7102 470
KEY0
S7102
S7104
S7113
CD S7115
TUNER S7117
TAPE S7119
AUX S7123
CBL/SAT S7125
VCR/DVR S7127
DVD S7129
S7106 NC
KEY1
R7107 330
R7108 470
R7109 560
R7110 820
R7111 1.2K
R7112 2.2K
R7113 3.9K
R7114 12K
S7116
S7118
S7120
S7122
S7124
S7126
S7128
S7130
KEY2
R7115 330
R7116 470
R7117 560
R7118 820
R7119 1.2K
R7120 2.2K
R7121 3.9K
R7122 12K
MEMORY S7132
DIGITAL INPUT S7134
DISPLAY S7136
LISTENING MODE> S7138
LISTENING MODE< S7140
STEREO S7142
TONE+ S7144
TONE- S7146
TONE S7148
TUNING UP S7149
PRESET UP S7151
ENTER S7153
PRESET DOWN S7155
TUNING DOWN S7157
SETUP S7159
RETURN S7161
TUNING MODE S7164
DIMMER S7166
KEY3
R7123 330
R7124 470
R7125 560
R7126 820
R7127 1.2K
R7128 2.2K
R7129 3.9K
R7130 12K
S7150
S7152
S7154
S7156
J7009
S7158
S7160
S7162
DTC114TS Q7404
R7410 220
Q7005 DTA114ES
R7411 470
Q7007 DTC114ES
Q7408 DTC114TS
R7409 220
C7405 1016
MTZJ6.8C D7411
R7406 330
C7404 330
R7408 33K
C7411 47/50
Q7401:A
R7407 1K
C7412 47/50
C7402 101J
R7405 47K
R7412 10
R7413 220K
R7414 100K
D7412 MTZJ6.8C
NJM4580D-D
Q7401:B
D7401 MTZJ5.1B
C7401 10/50
R7403 47K
R7404 220
L7401 022K
L7402 022K
R7401 100
R7402 47K
C7421 102J
P7401
SETUP MIC

SCHEMATIC DIAGRAMS-5

VIDEO SECTION



E F G H



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Location of connected terminal in schematic diagrams.
SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

SCHEMATIC DIAGRAMS-6

SPEAKER TERMINAL SECTION

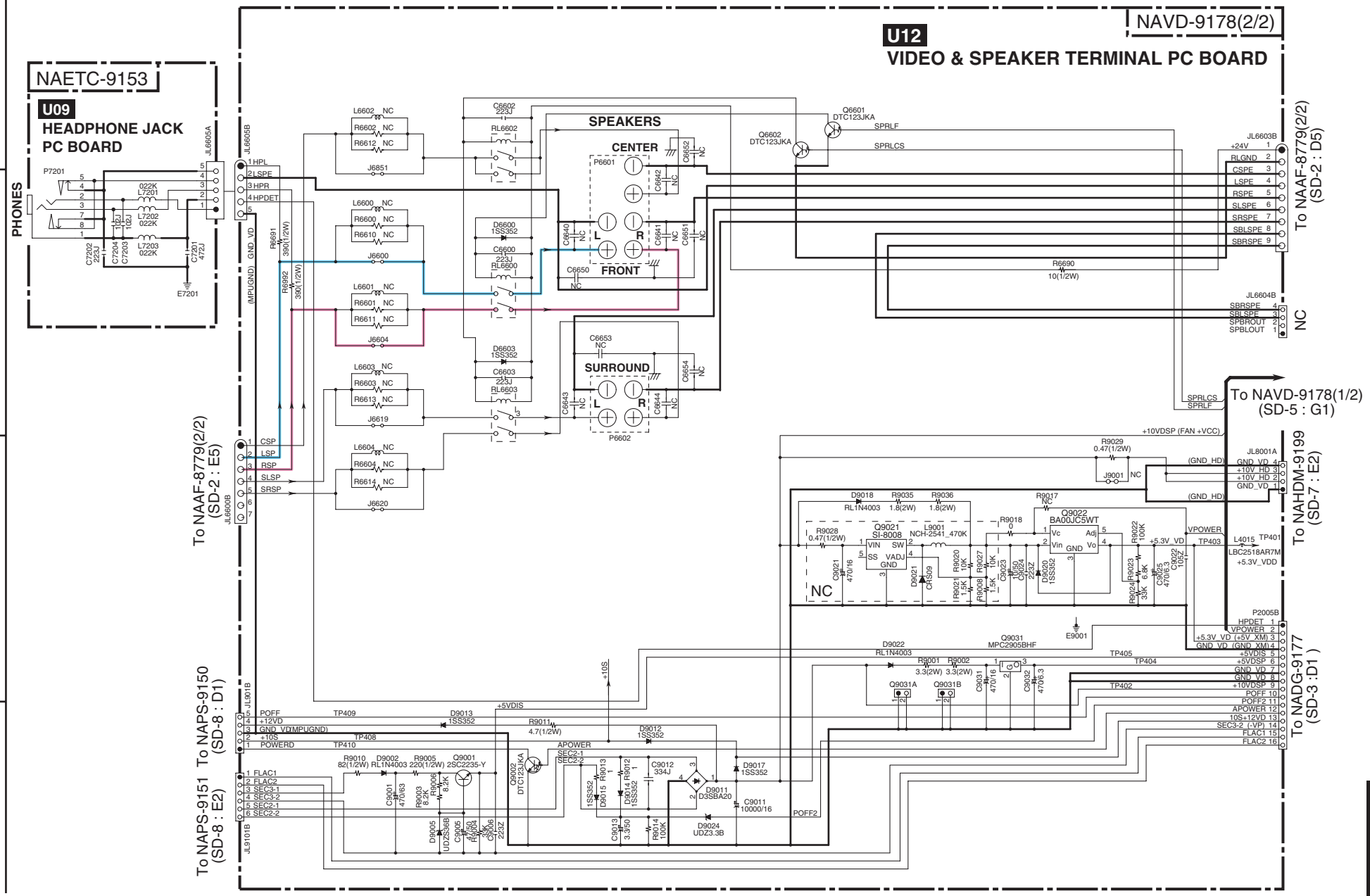
<Note>

NC = No mount of parts.

SD-Z : XY

Location of connected terminal in schematic diagrams.

SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.



SCHEMATIC DIAGRAMS-7

HDMI SECTION

<Note>

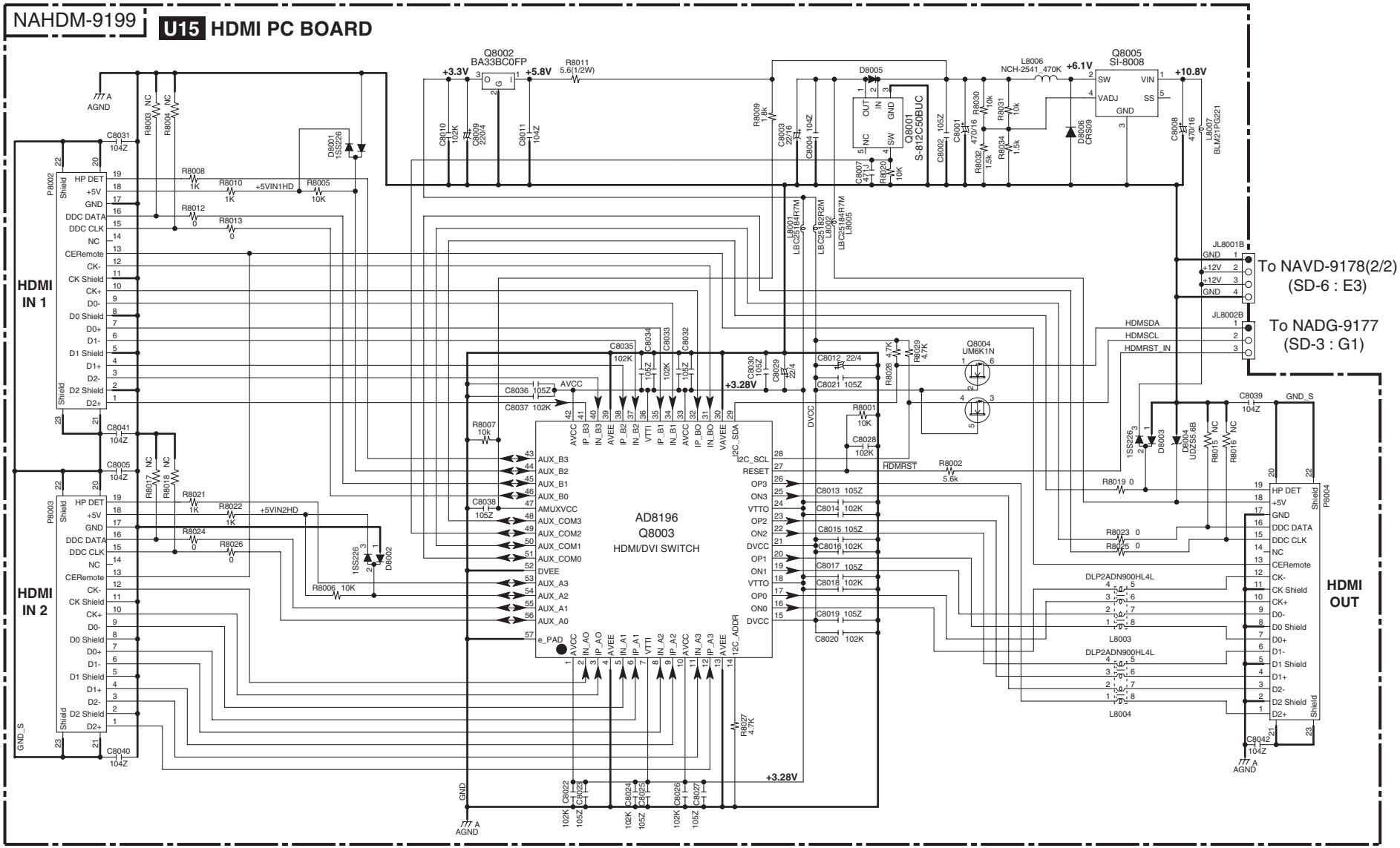
NC = No mount of parts.

SD-Z : XY

Location of connected terminal in schematic diagrams.

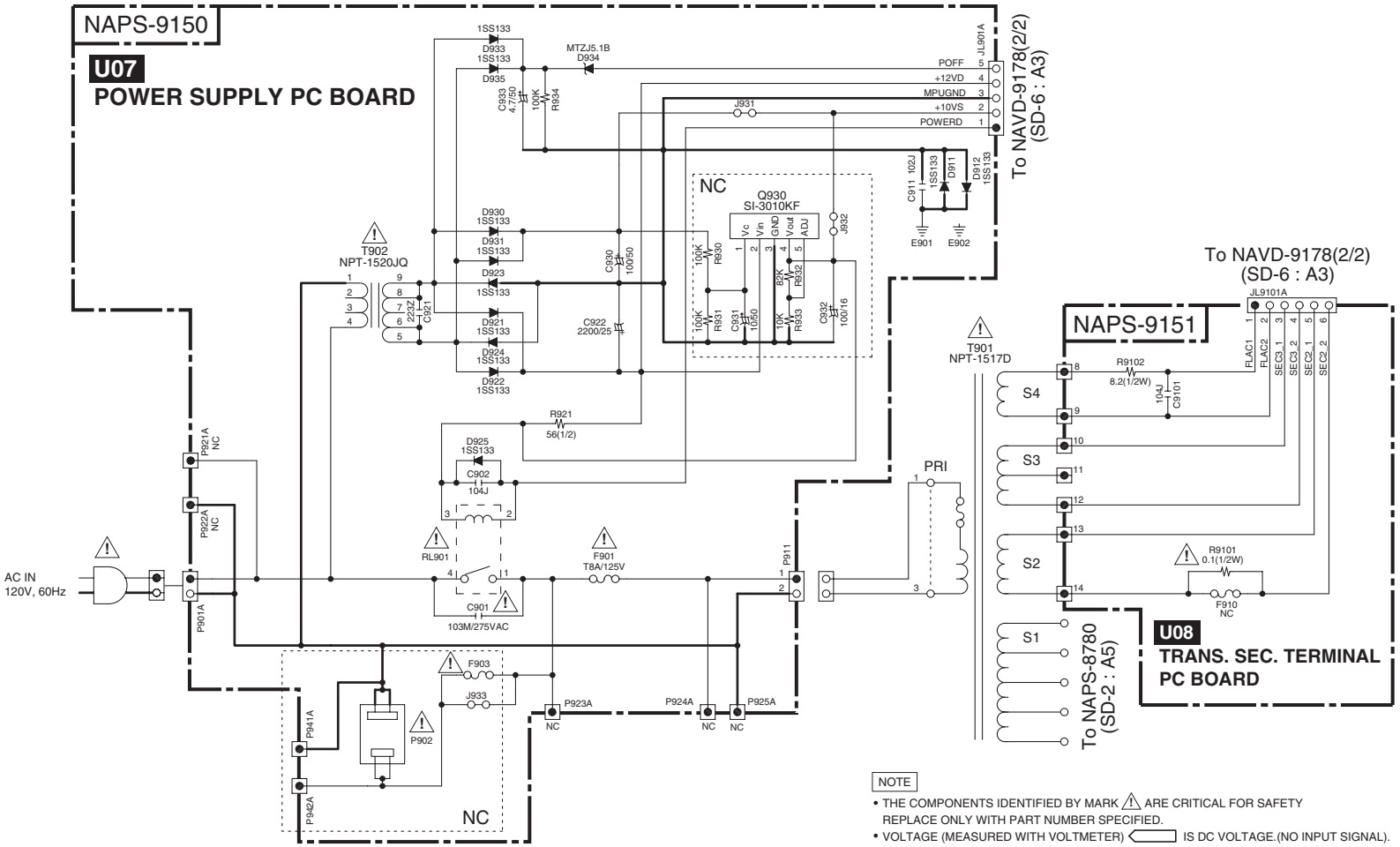
SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

NAHDM-9199 **U15 HDMI PC BOARD**



SCHEMATIC DIAGRAMS-8

POWER SUPPLY SECTION



CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL.

ATTENTION

AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTLISE EST E LENT.POUR UNE PROTECTION PERMANENTE,N'UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DARNIER EST INDIQUE LA QU LE PRESENT SYMBOL EST APPOSE.

NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ⟸ IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ⊡⊡⊡ ← PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

NC = No mount of parts.

SD-Z : XY
Location of connected terminal in schematic diagrams.
SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

SCHEMATIC DIAGRAMS-9

XM DIGITAL TRANSCEIVER SECTION

<Note>

NC = No mount of parts.

SD-Z : XY

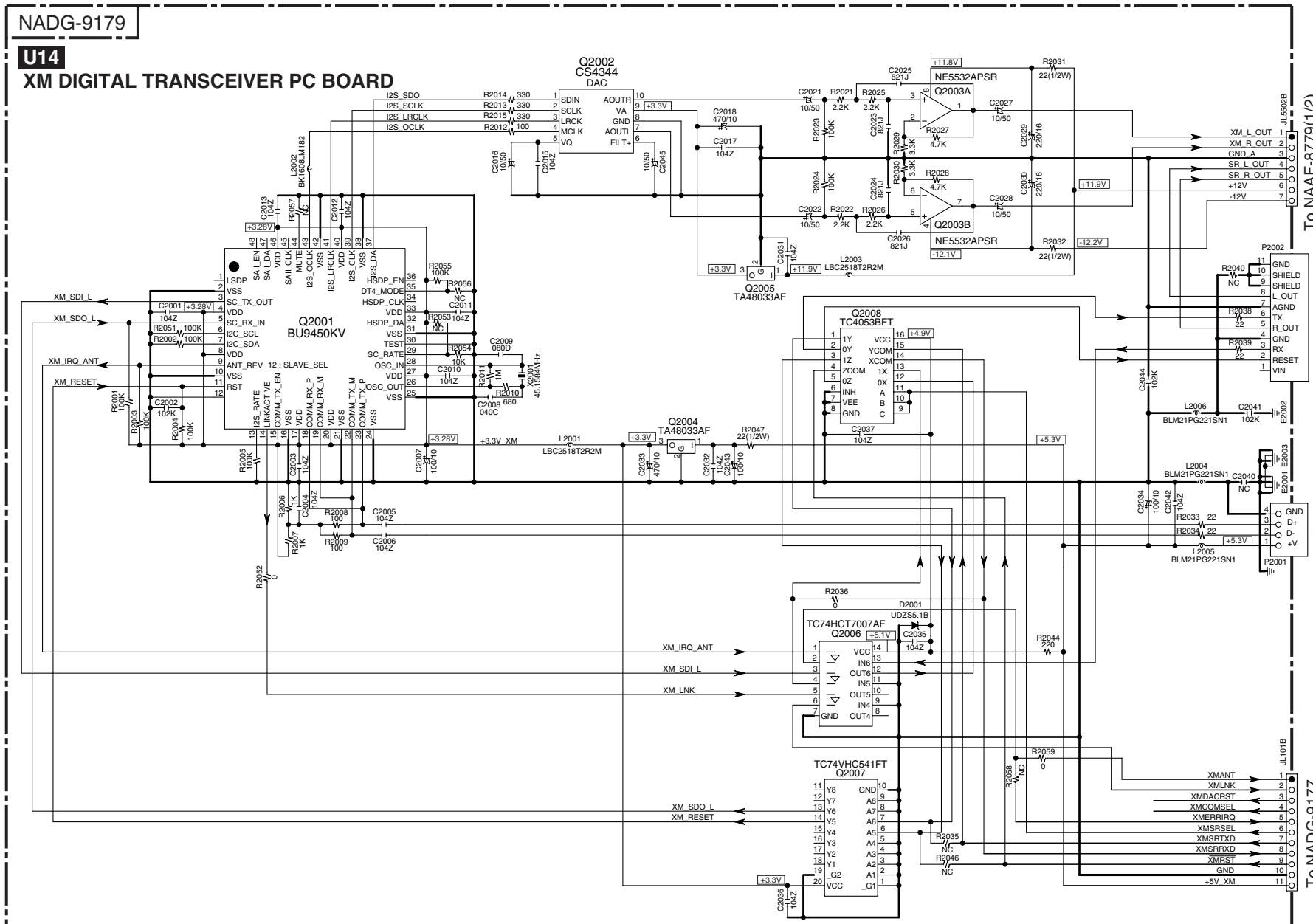
Location of connected terminal in schematic diagrams.

SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

NADG-9179

U14

XM DIGITAL TRANSCEIVER PC BOARD



SCHEMATIC DIAGRAMS-10

DIGITAL AUDIO WAVE FORM SECTION

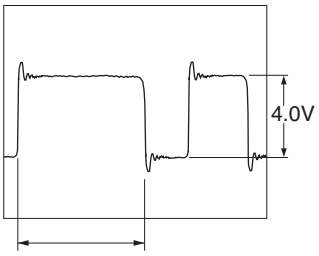
<Note>

1. (WF01) is short for (Wave form 01).
2. [TP01] is test point number on PC board.
3. Refer to SD-3 (SCHEMATIC DIAGRAM-3) for details.

LR CLOCK (SAI_LRCK, CX_LRCK)
Fs = 48kHz : DVD, Clock width = 20.8us
Fs = 44.1kHz : CD, Clock width = 22.7us

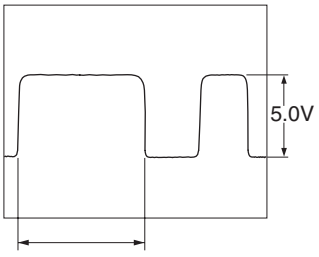
BIT CLOCK (SAI_SLCK, CX_SLCK)
64Fs = 3072kHz : DVD, Clock width = 325ns
64Fs = 2822.4kHz : CD, Clock width = 354ns

WF01 OPT1



Duty varies according to audio data

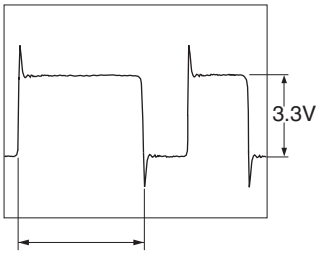
WF02 COAX1



Duty always varies according to audio data

WF03 SAI_SDOUT

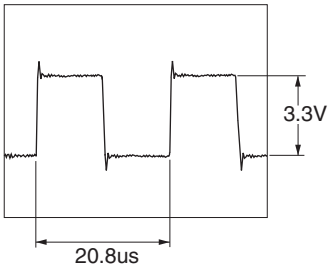
TP03



Duty varies according to audio data

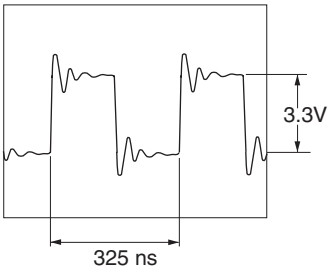
WF04 SAI_LRCK

TP02



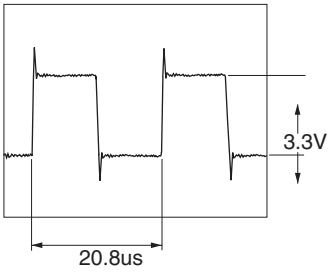
WF05 SAI_SLCK

TP01



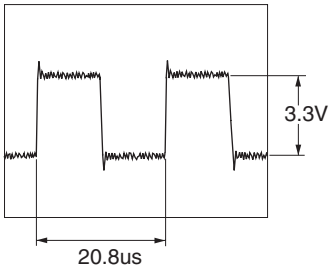
WF06 CX_SDIN1

TP06



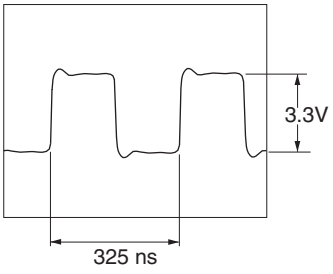
WF07 CX_LRCK

TP05

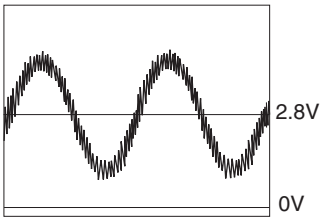


WF08 CX_SCLK

TP04



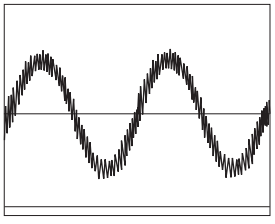
WF09 DAC_OUT-



Analog audio wave form with aliasing noise

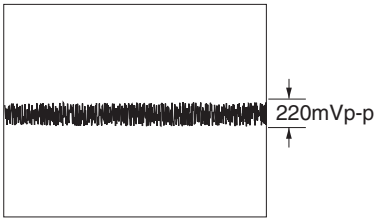
WF10 AUDIO_FL

TP08 --- TP13



Analog audio wave form with aliasing noise

WF10 AUDIO_FL

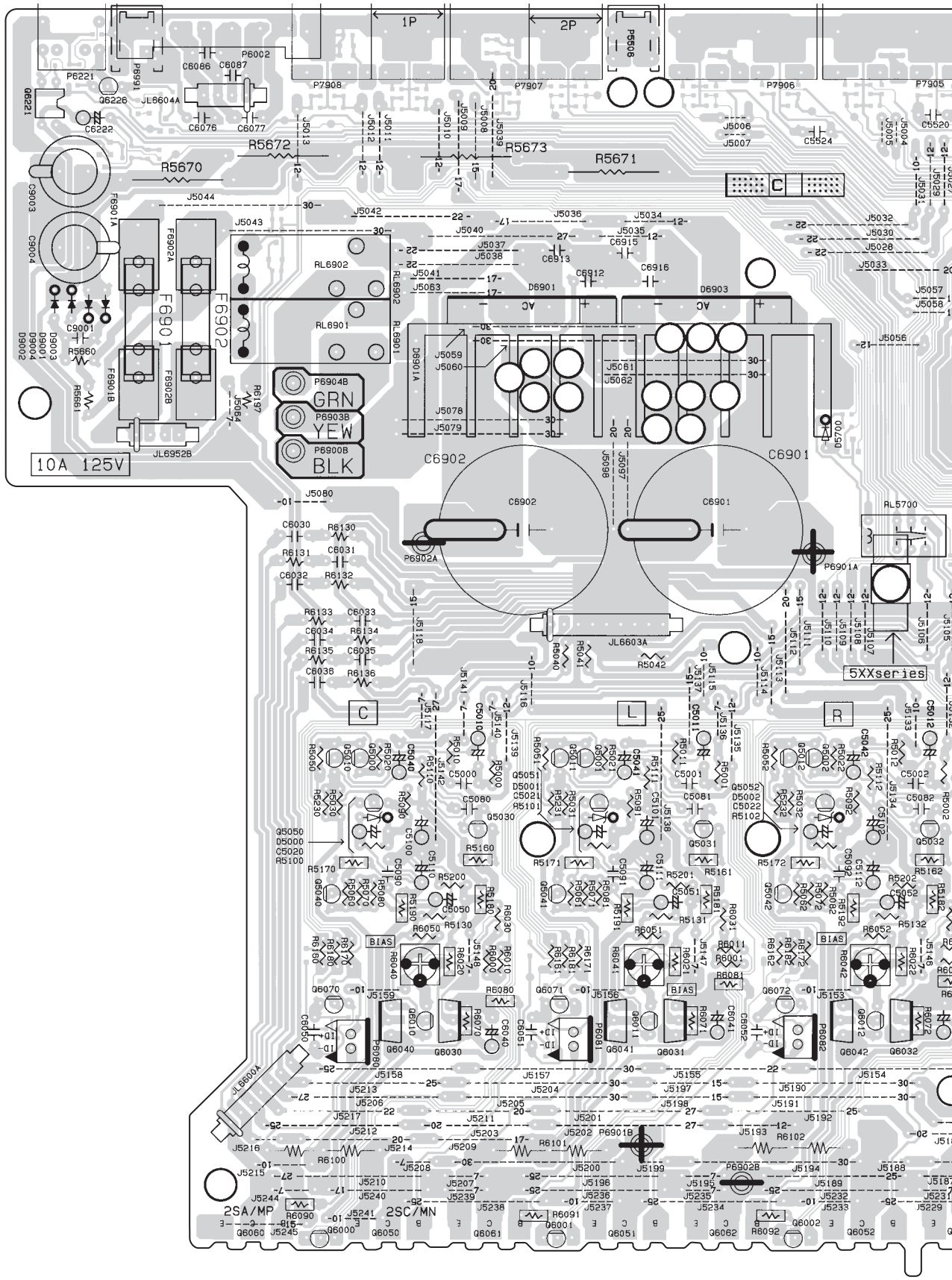


Aliasing noise in no audio data

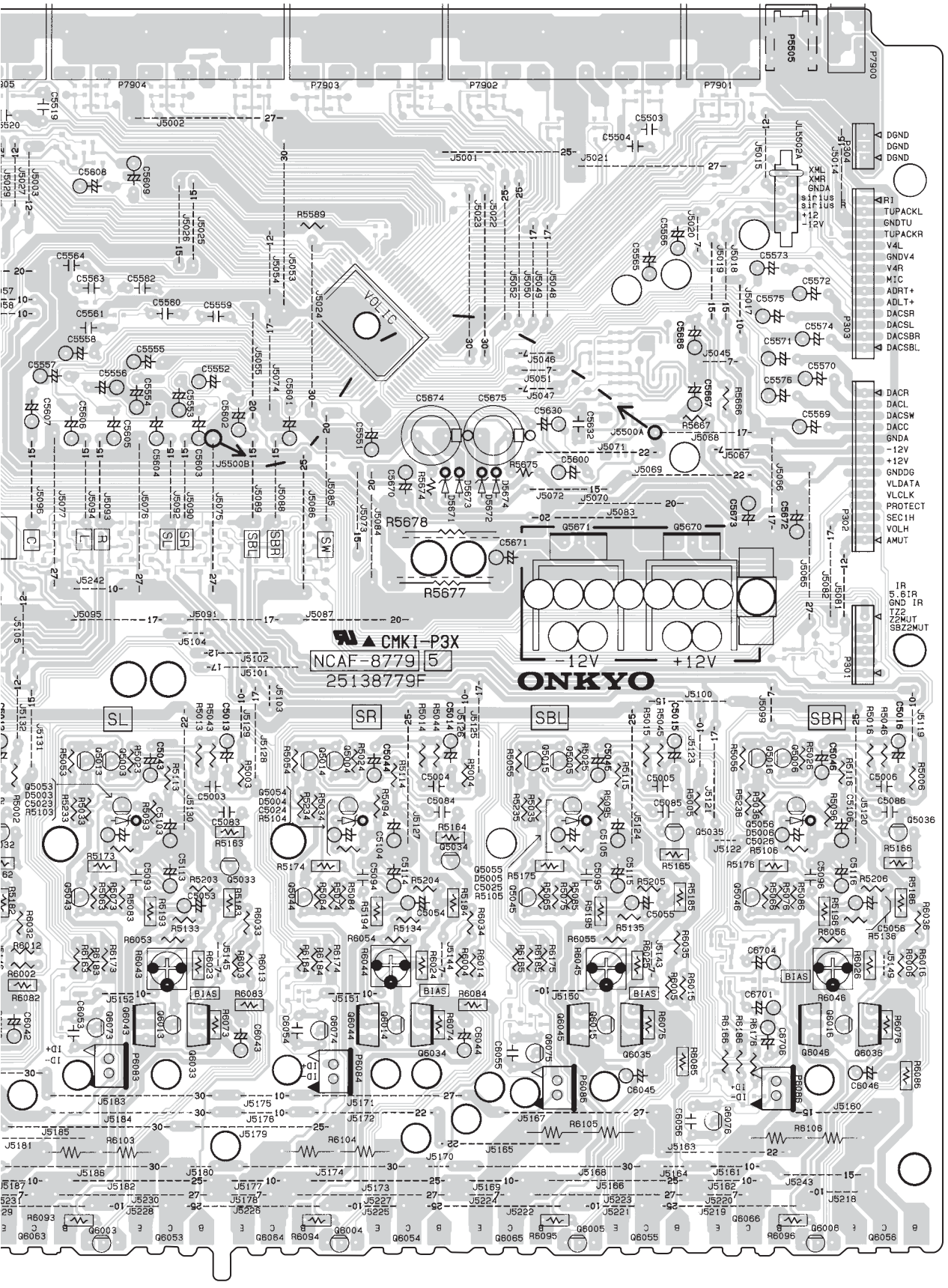
PRINTED CIRCUIT BOARD VIEWS-1

U01 AMPLIFIER PC BOARD (NAAF-8779)

Component side



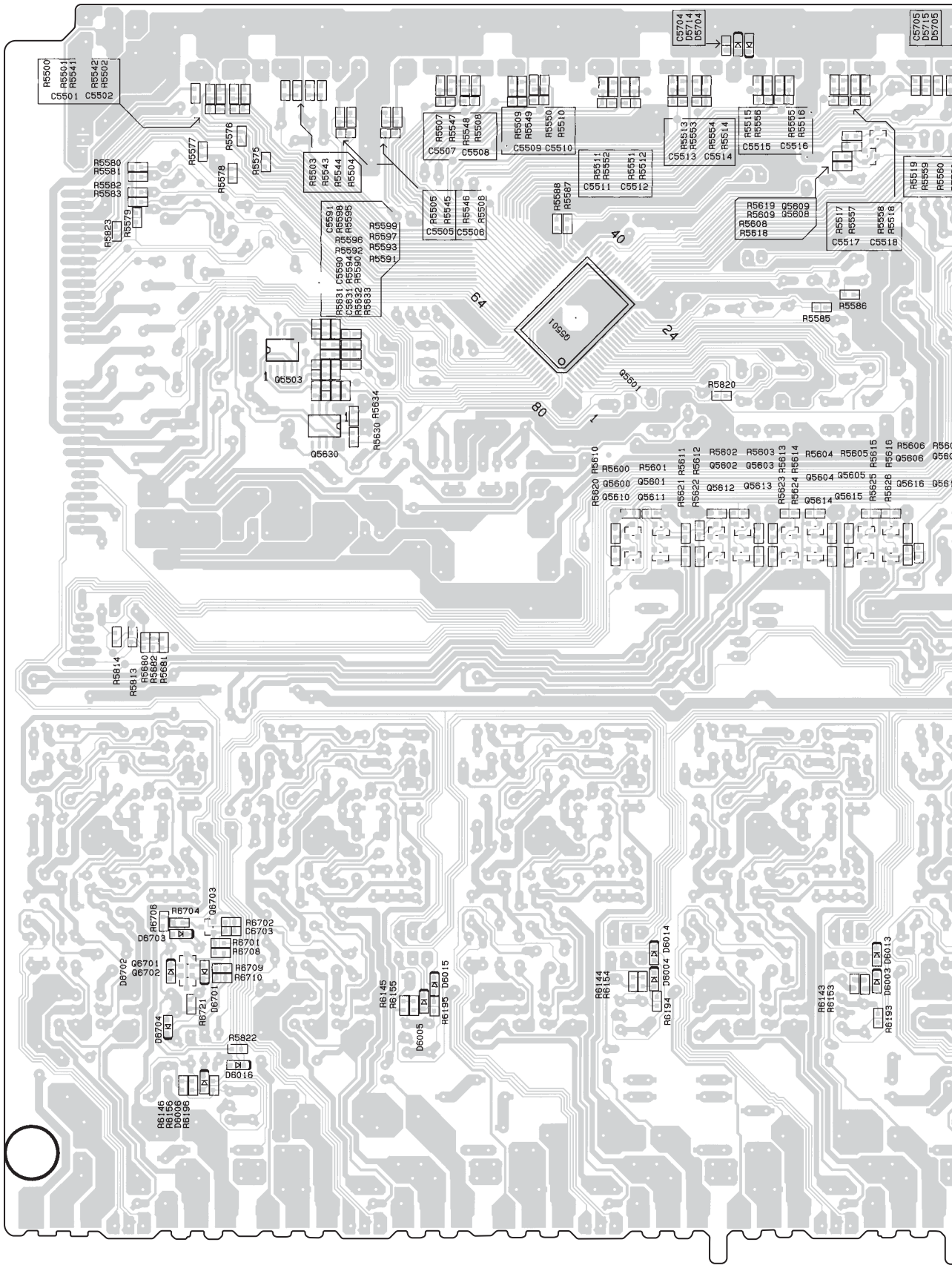
E F G H


P7904
P7903
P7902
P7901
P5505
P7600
P303
P302
P301
DGND
DGND
DGND
RI
TUPACKL
GNDTU
TUPACKR
V4L
GNDV4
V4R
MIC
ADRT+
ADLT+
DACSR
DACSL
DACSBR
DACSBL
DACR
DACL
DACSW
DACC
GNDA
-12V
+12V
GNDDG
VLDATA
VLCLK
PROTECT
SEC1H
VOLH
AMUT
IR
5.6IR
GND IR
TZ2
Z2MUT
SBZ2MUT
XML
XMR
GNDA
sirius
sirius
+12
+12V
VOL IC
R5589
R5678
R5677
C5671
CMKI-P3X
NCAF-8779 5
25138779F
ONKYO
-12V
+12V
SL
SR
SBL
SBR
BIAS

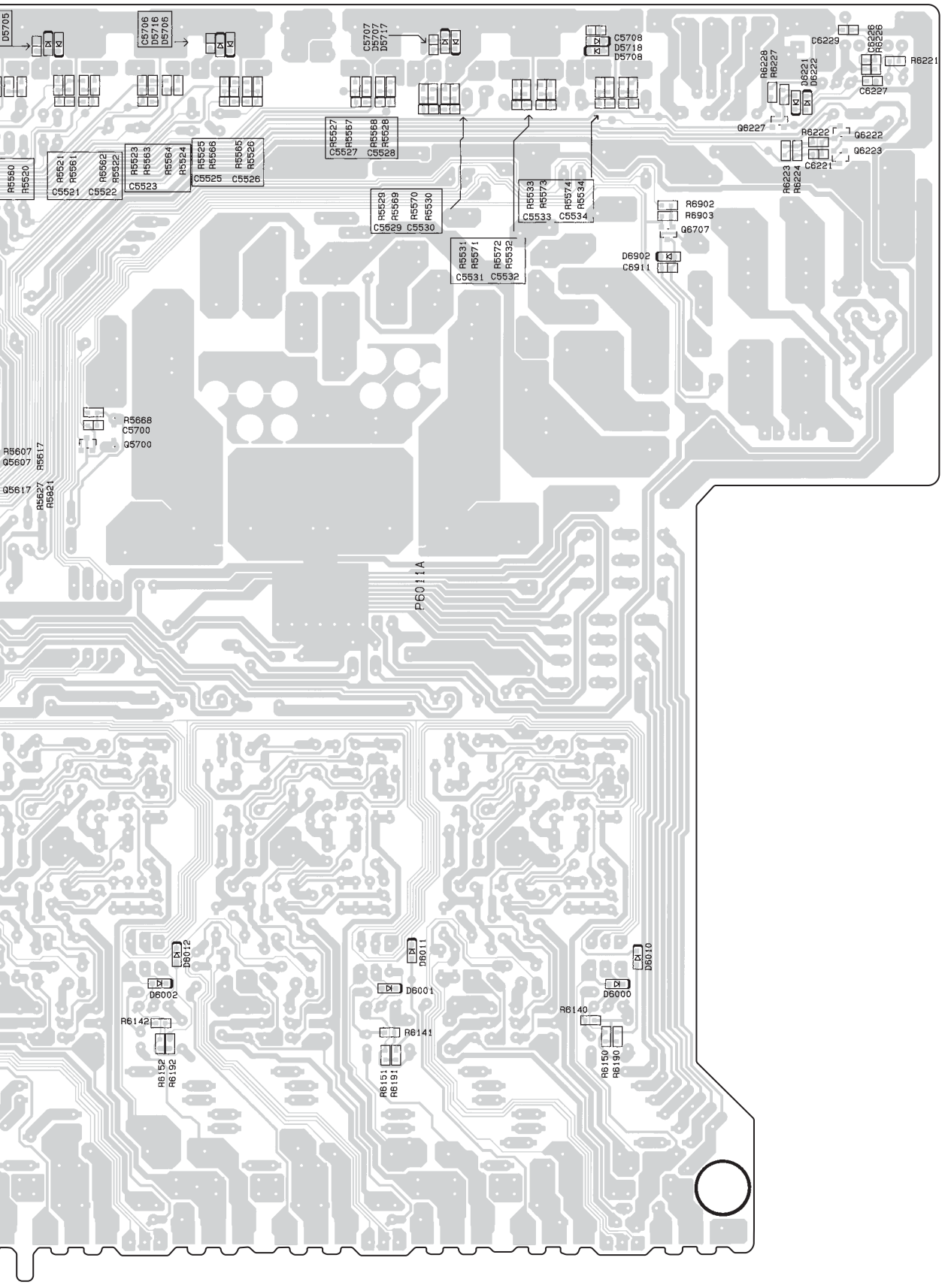
PRINTED CIRCUIT BOARD VIEWS-2

U01 AMPLIFIER PC BOARD (NAAF-8779)

Soldering side



E F G H


D5705
C5706
D5716
D5706
C5707
D5707
D5717
C5708
D5718
D5708
C6229
C6226
R6226
R6221
C6227
R6228
R6227
D6221
D6222
Q6227
R6222
Q6222
Q6223
C6221
R6223
R6224
R5560
R5620
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R5569
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R5530
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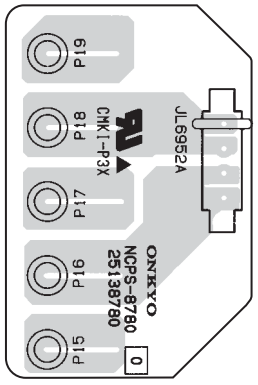
C5530
R5533
R5573
R5574
R5534
C5533
C5534
R6902
R6903
Q6707
D6902
C6911
R5531
R5571
R5572
R5532
C5531
C5532
R5668
C5700
Q5700
R5607
Q5607
R5617
Q5617
R5627
R5621
P6011A
D6012
D6002
R6142
R6152
R6192
D6011
D6001
R6141
R6151
R6191
D6010
D6000
R6140
R6150
R6190

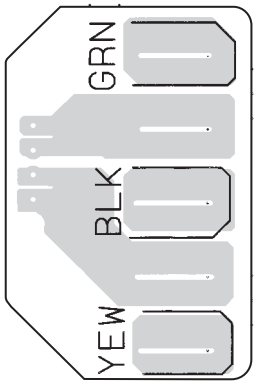
PRINTED CIRCUIT BOARD VIEWS-3

U02 TRANS. SEC. TERMINAL PC BOARD (NAPS-8780)

Component side

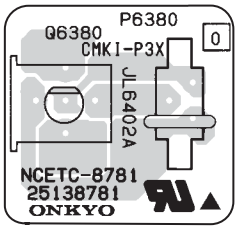


Soldering side



U03 THERMAL SENSOR PC BOARD (NAETC-8781)

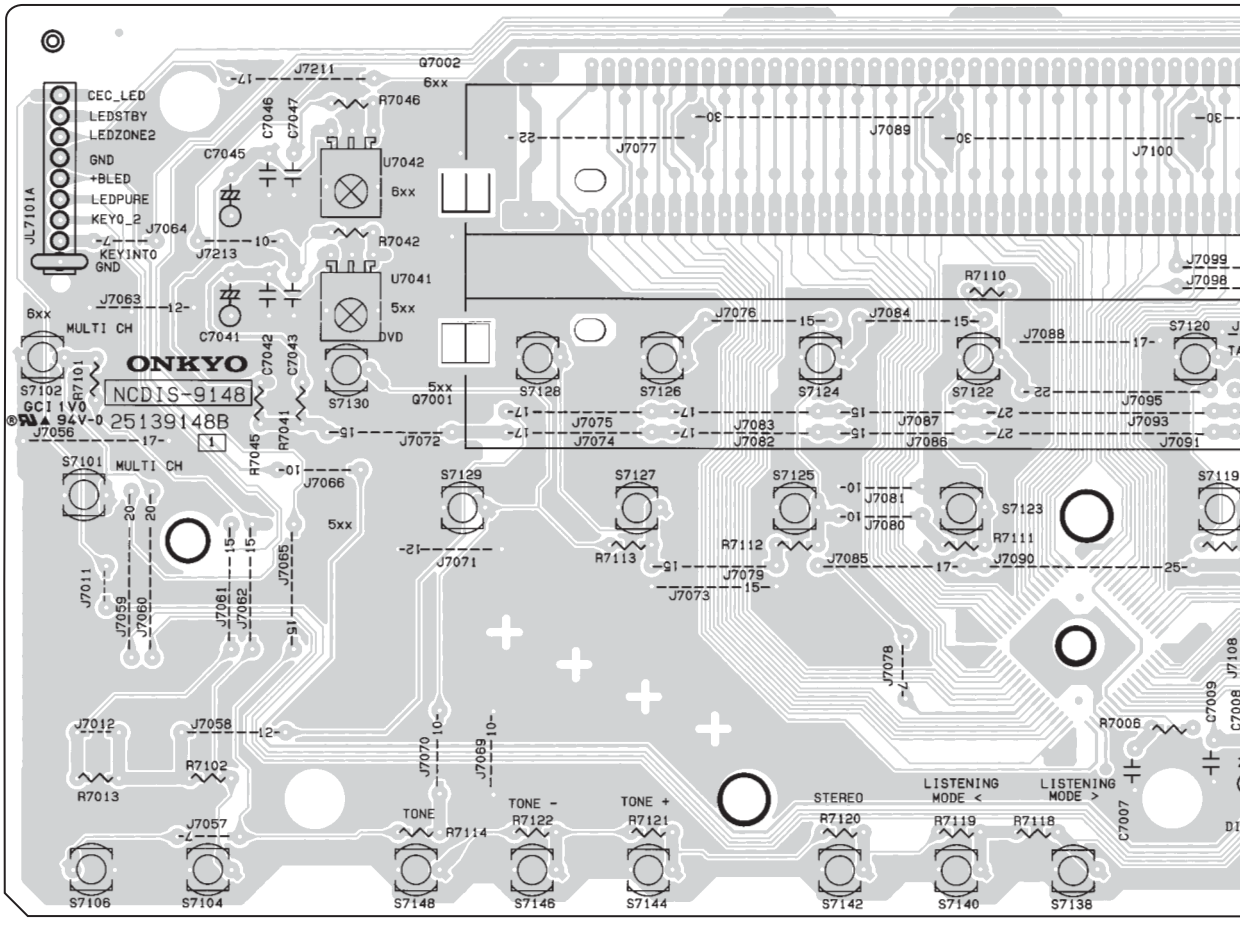
Component side



PRINTED CIRCUIT BOARD VIEWS-4

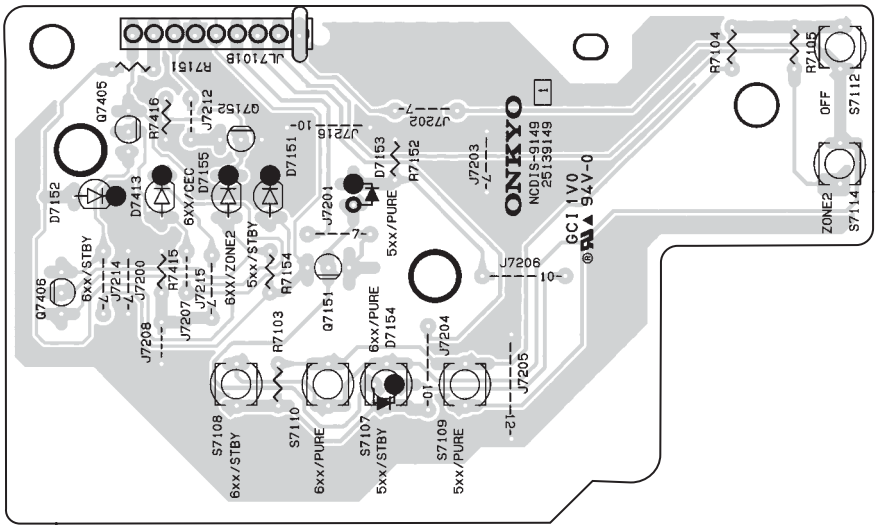
U05 DISPLAY PC BOARD (NADIS-9148)

Component side

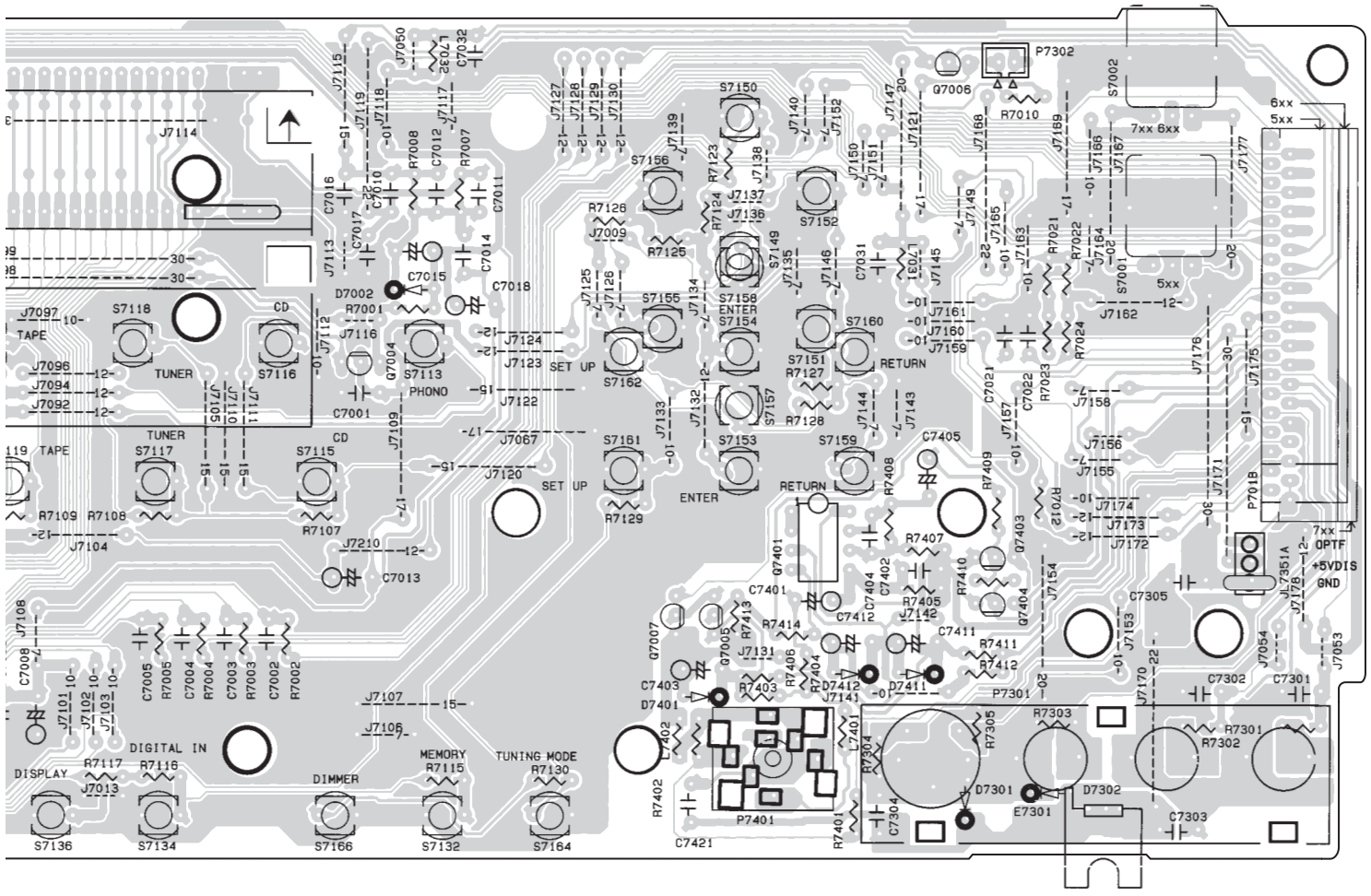


U06 SWITCH PC BOARD (NADIS-9149)

Component side



E F G H


P7302
Q7006
R7010
S7002
6xx
5xx
7xx 6xx
J7114
S7118
CD
TAPE
TUNER
S7116
PHONO
S7113
D7002
C7015
R7001
C7001
S7150
S7156
S7155
S7162
S7161
S7152
S7160
S7151
S7157
S7153
S7159
RETURN
ENTER
SET UP
S7117
S7115
R7107
R7108
R7109
J7104
J7210
C7013
C7405
R7408
R7409
R7407
Q7401
C7401
C7412
R7414
R7413
R7406
R7404
R7403
D7412
D7411
J7131
J7141
J7142
C7411
R7411
R7412
P7301
C7305
C7302
C7301
R7303
R7305
R7301
R7302
D7301
D7302
E7301
C7303
C7304
R7304
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P7401
C7421
D7401
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C7404
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Q7403
Q7404
J7154
J7153
J7170
J7054
J7053
J7108
J7101
J7102
J7103
C7005
R7005
C7004
R7004
C7003
R7003
C7002
R7002
J7107
J7106
DIGITAL IN
DISPLAY
R7117
R7116
J7013
DIMMER
MEMORY
R7115
TUNING MODE
R7130
S7136
S7134
S7166
S7132
S7164
J7097
J7096
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J7158
J7156
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J7173
J7172
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7xx OPTF
+5VDIS
GND
JL7351A
J7178
J7145
J7144
J7143
J7157
J7161
J7160
J7159
C7031
L7031
C7021
C7022
R7023
R7024
R7021
R7022
S7001
5xx
C7016
C7017
C7010
C7012
R7008
R7007
C7011
C7014
C7018
L7032
C7032
J7050
J7115
J7119
J7118
J7117
R7009
R7126
R7125
R7123
R7124
S7149
S7154
S7158
ENTER
S7157
R7128
R7127
R7129
J7105
J7110
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J7119
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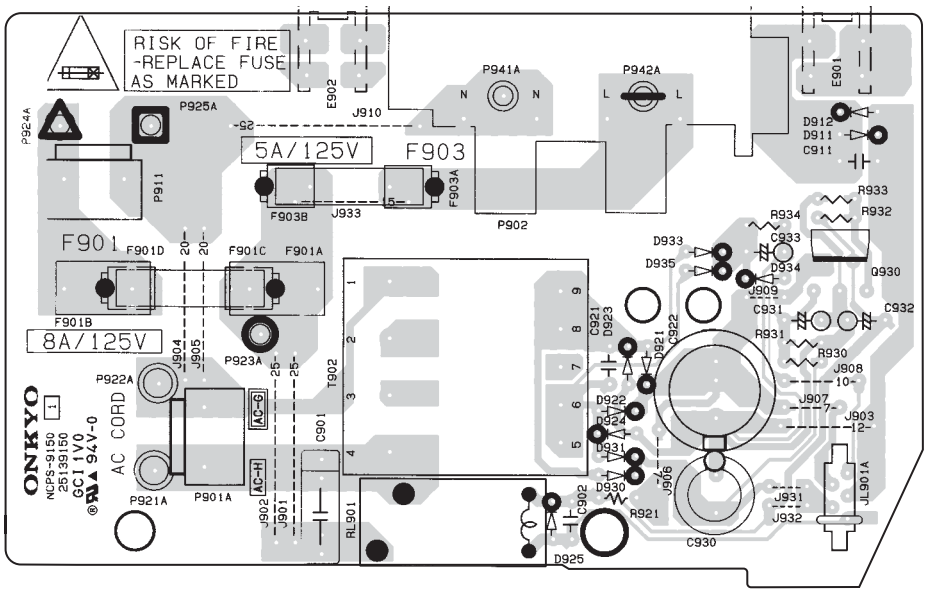
J7151

PRINTED CIRCUIT BOARD VIEWS-5

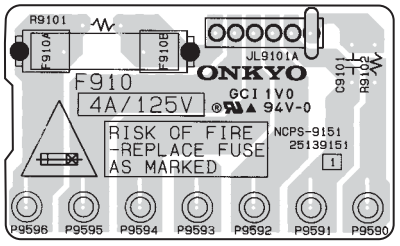
U07 POWER SUPPLY PC BOARD (NAPS-9150)

Component side



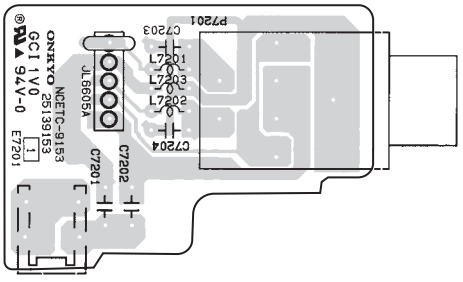
U08 TRANS. SEC. TERMINAL PC BOARD (NAPS-9151)

Component side



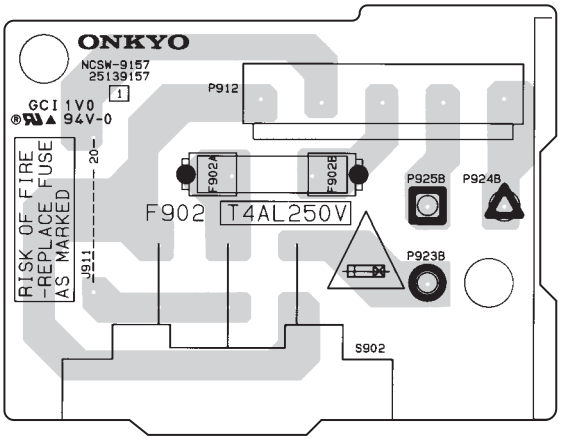
U09 HEADPHONE JACK PC BOARD (NAETC-9153)

Component side



U10 SWITCH PC BOARD (NASW-9157)

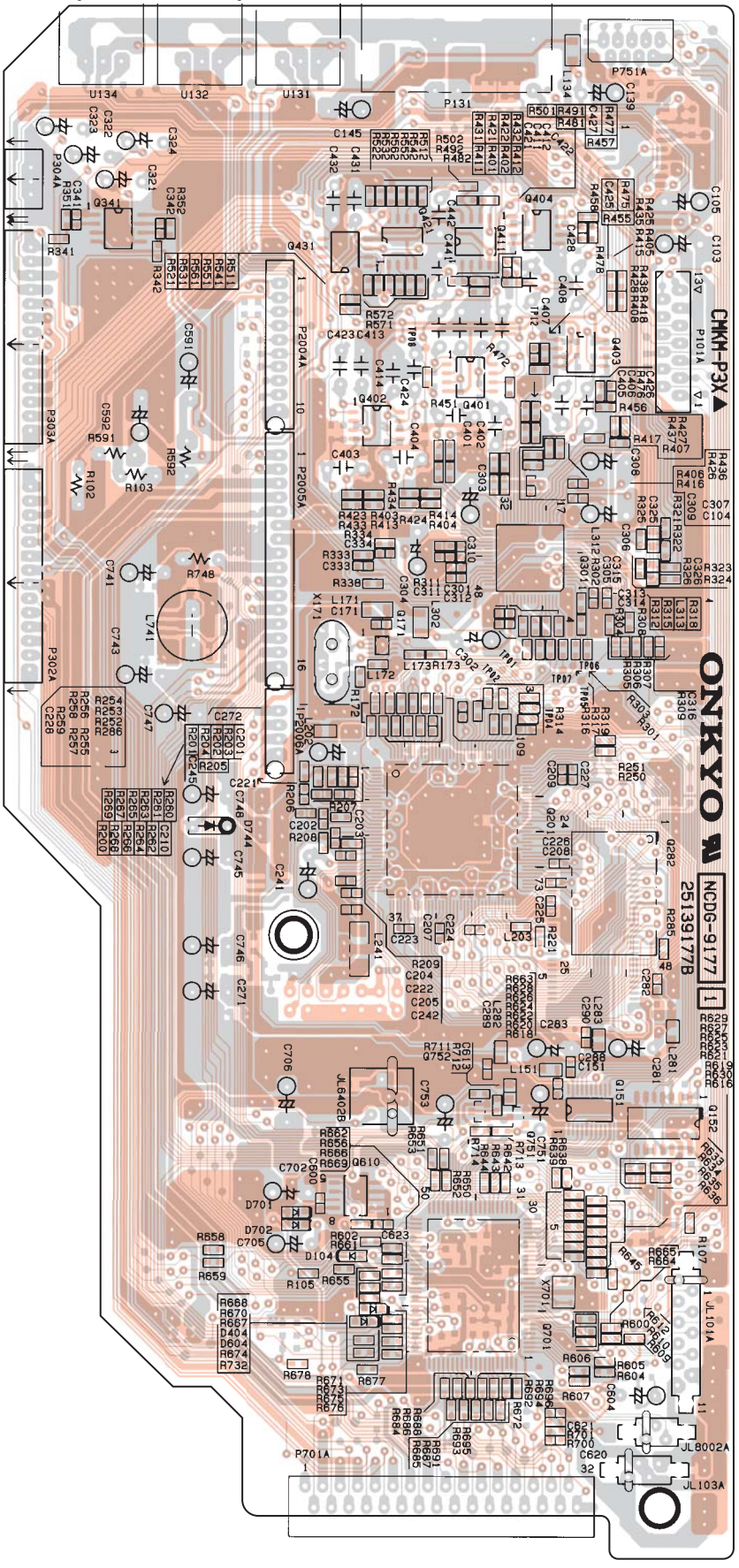
Component side



PRINTED CIRCUIT BOARD VIEWS-6

U12 DSP PC BOARD (NADG-9177)

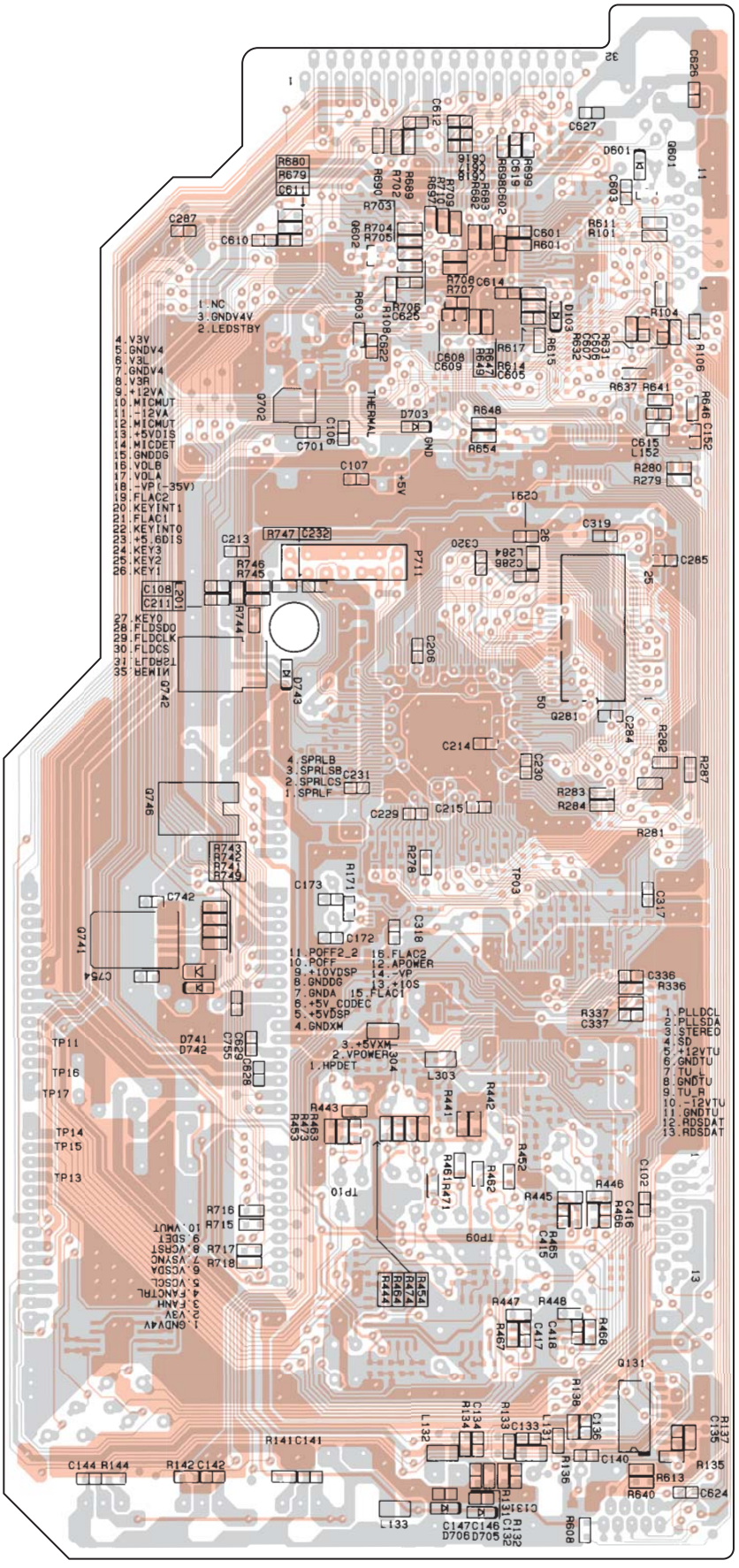
Side-A



PRINTED CIRCUIT BOARD VIEWS-7

U12 DSP PC BOARD (NADG-9177)

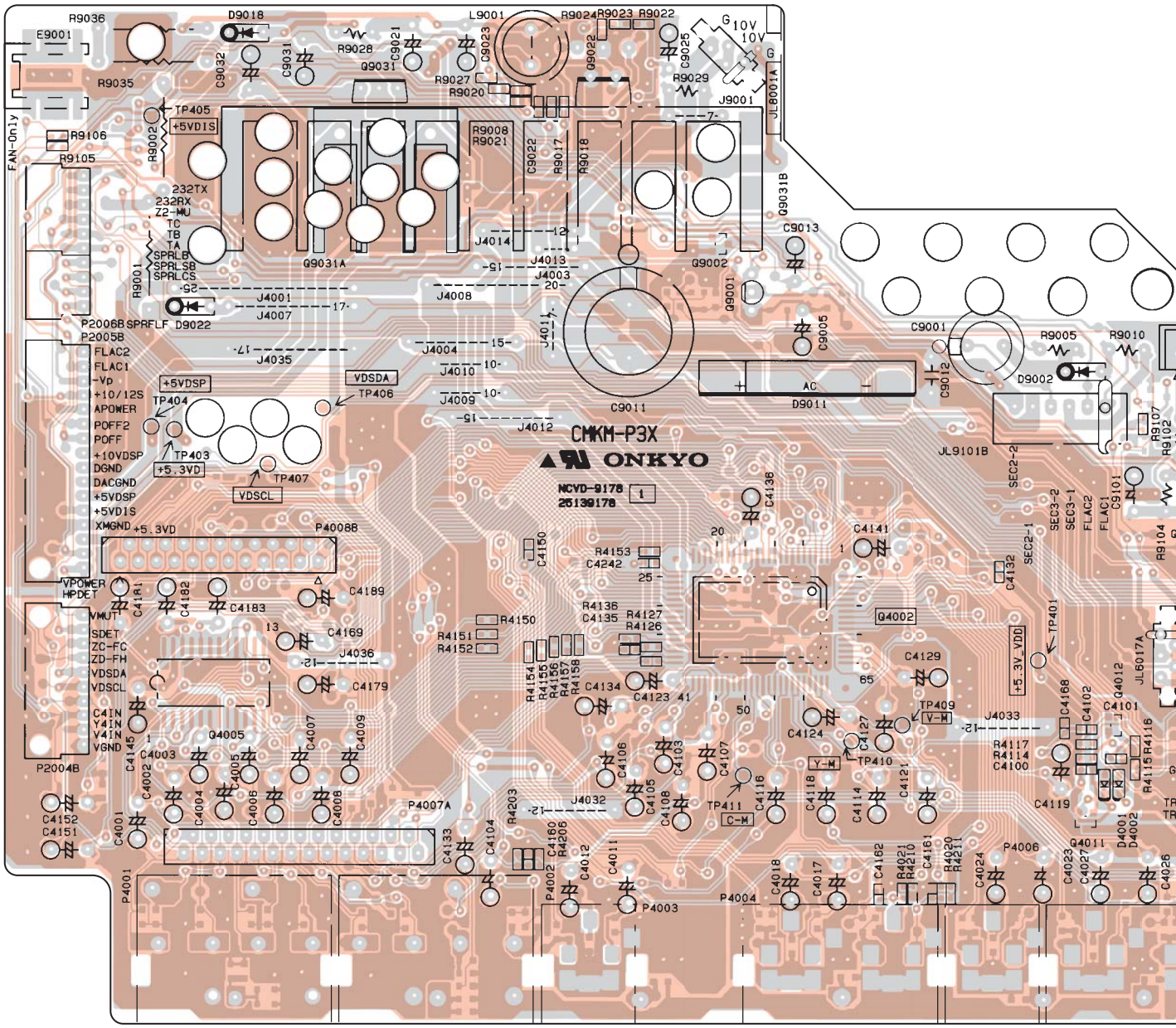
Side-B



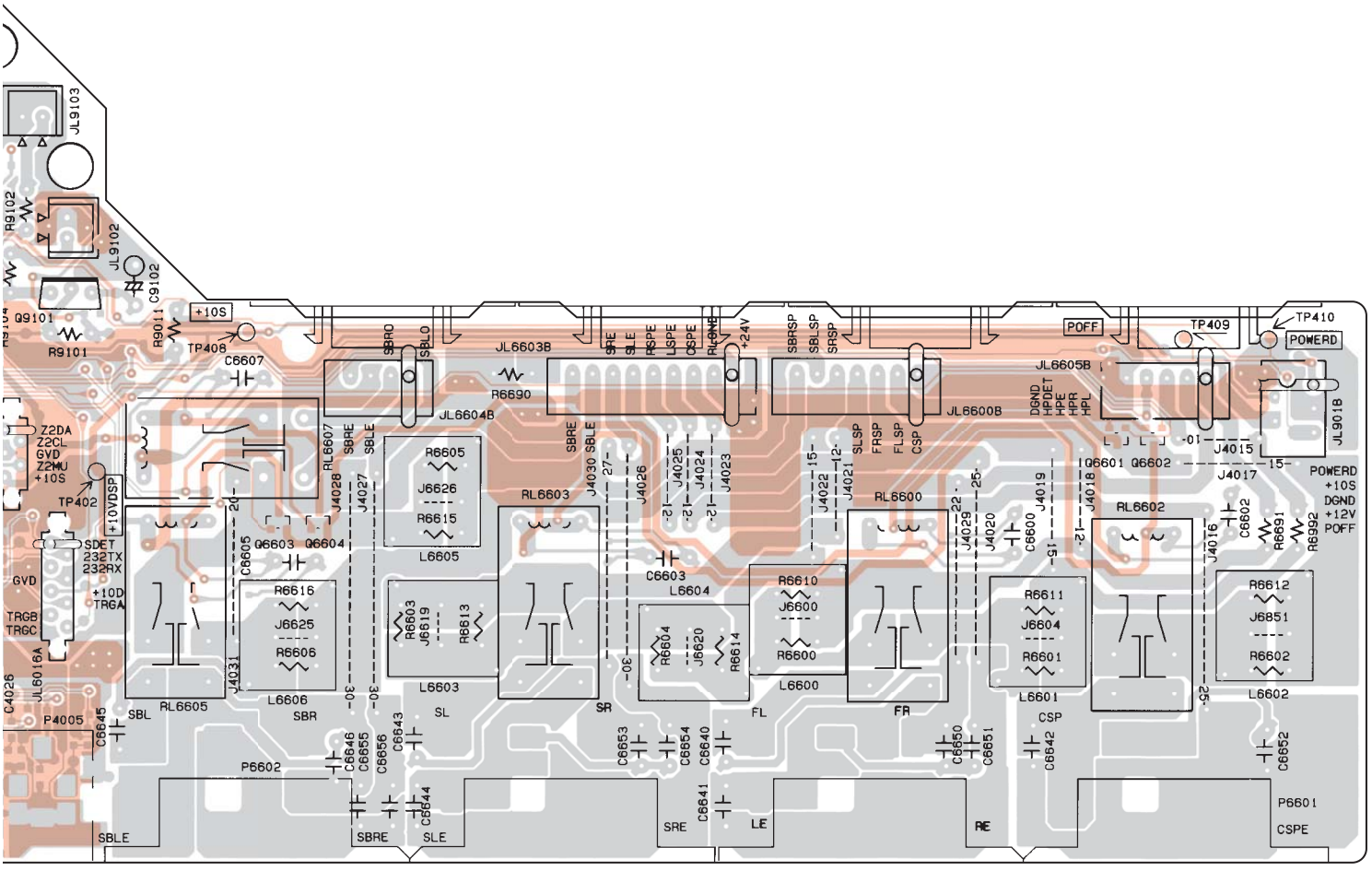
PRINTED CIRCUIT BOARD VIEWS-8

U13 VIDEO & SPEAKER TERMINAL PC BOARD (NAVD-9178)

Side-A



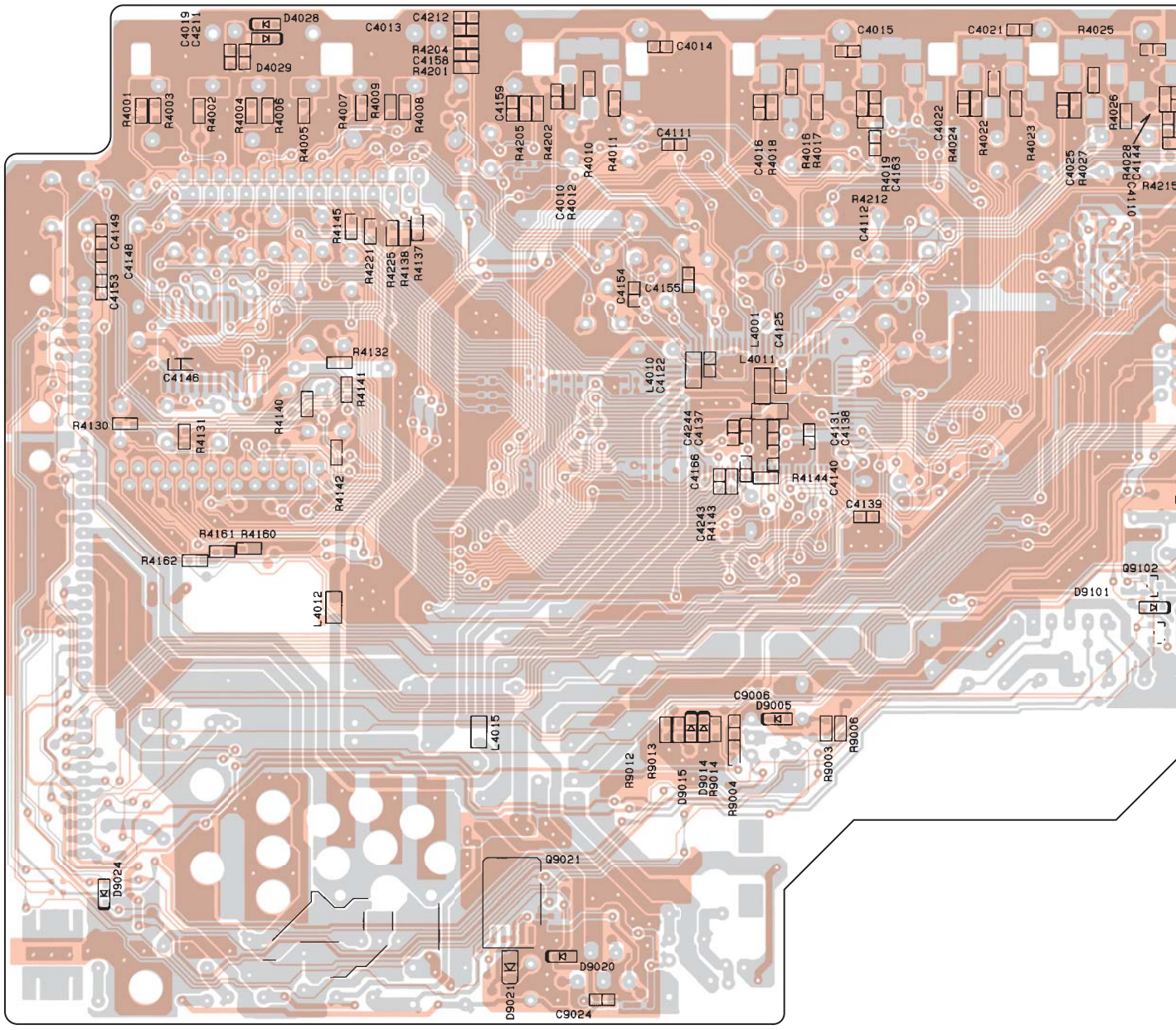
E F G H


JL9103
JL9102
C9102
R9102
Q9101
R9101
R9011
+10S
TP408
C6607
SBRO
SBLO
JL6604B
JL6603B
R6690
SRE
SLE
RSPE
LSPE
CSPE
RLINE
+24V
SBRSP
SBLSP
SRSP
JL6600B
POFF
TP409
TP410
POWERD
JL6605B
DGND
HPDET
HPE
HPR
HPL
JL9018
J4015
Q6601 Q6602
J4017
POWERD
+10S
DGND
+12V
POFF
Z2DA
Z2CL
GVD
Z2MU
+10S
TP402
+10VDSP
SDET
232TX
232RX
+10D
TRGA
GVD
TRGB
TRGC
JL6016A
C4026
P4005
C6645
SBL
RL6605
L6606
SBR
L6603
SL
RL6603
SR
L6604
FL
L6600
RL6600
FR
L6601
CSP
RL6602
L6602
RE
P6602
P6601
CSPE
SBLE
SBRE
SLE
SRE
LE
RL6607
SBRE
SBLE
J4028
J4027
J4030
J4026
J4025
J4024
J4023
SLSP
FRSP
FLSP
CSP
J4022
J4021
J4029
J4020
J4019
J4018
J4016
C6602
R6691
R6992
C6605
Q6603 Q6604
R6605
J6626
R6615
L6605
R6616
J6625
R6606
J6603
J6619
R6613
C6603
L6604
R6604
J6620
R6614
R6610
J6600
R6600
R6611
J6604
R6601
R6612
J6851
R6602
C6646
C6655
C6656
C6643
C6644
C6653
C6654
C6640
C6641
C6650
C6651
C6642
C6652

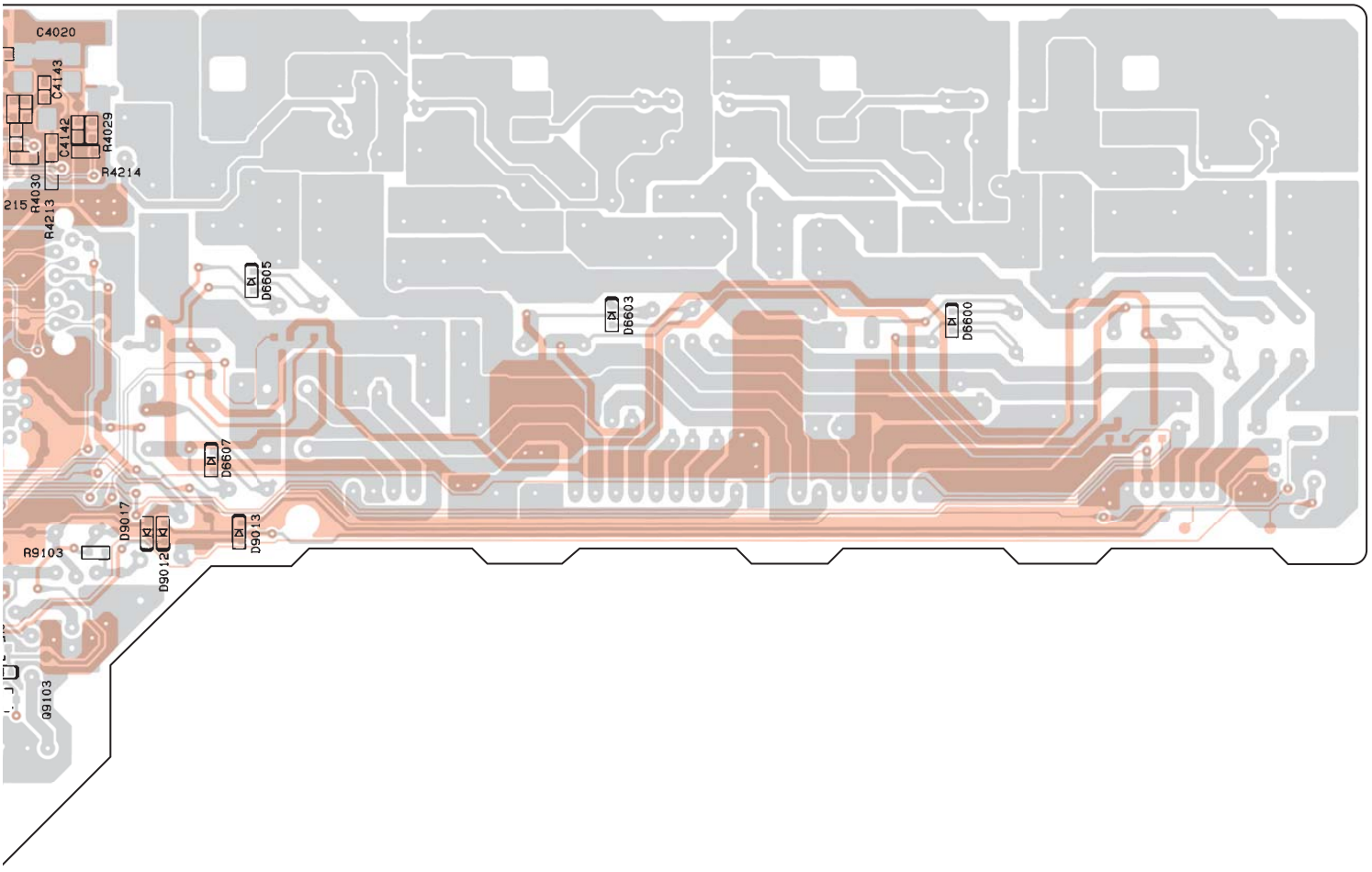
PRINTED CIRCUIT BOARD VIEWS-9

U13 VIDEO & SPEAKER TERMINAL PC BOARD (NAVD-9178)

Side-B



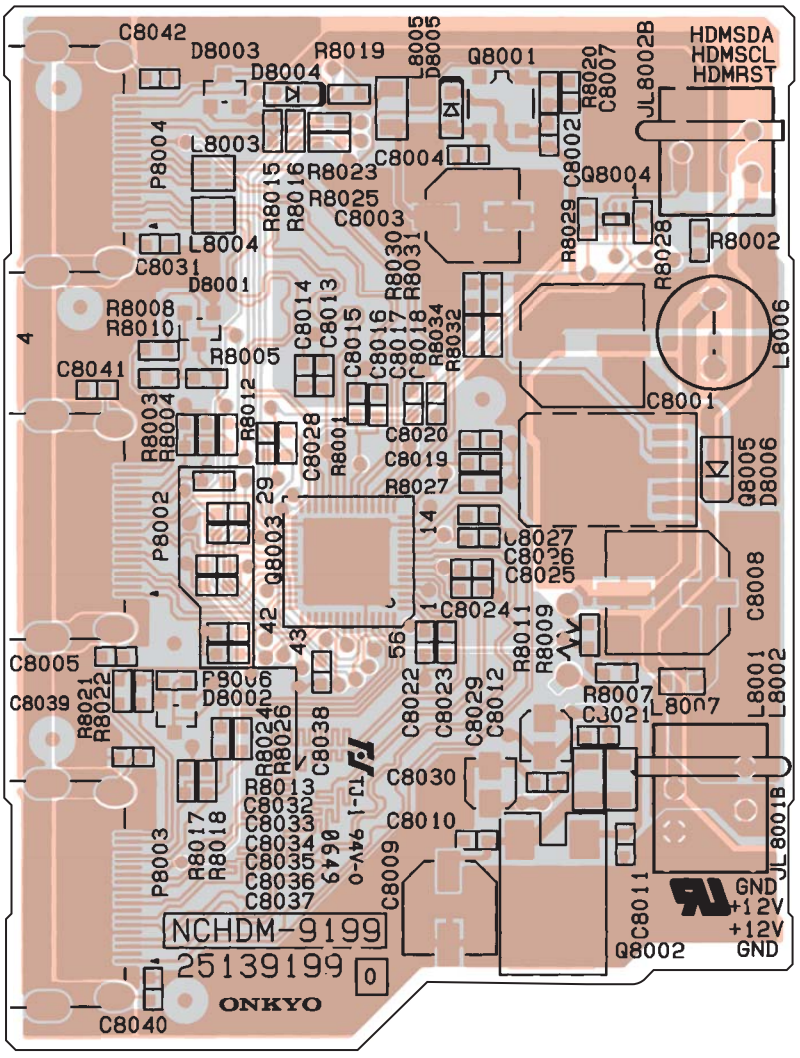
E F G H


C4020
C4143
C4142
R4029
R4214
R4030
R4213
D6605
D6603
D6600
D6607
D9017
D9012
D9013
R9103
Q9103

PRINTED CIRCUIT BOARD VIEWS-10

U14 HDMI PC BOARD (NAHDM-9199)

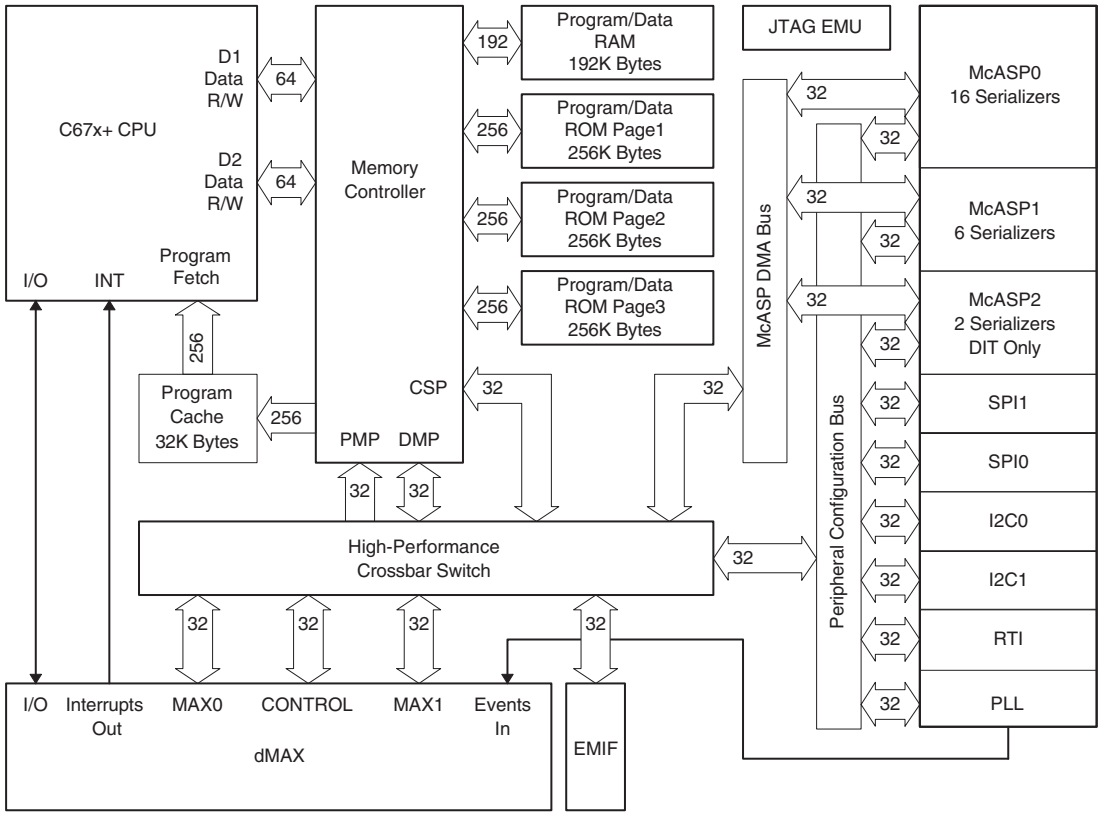
Side-A



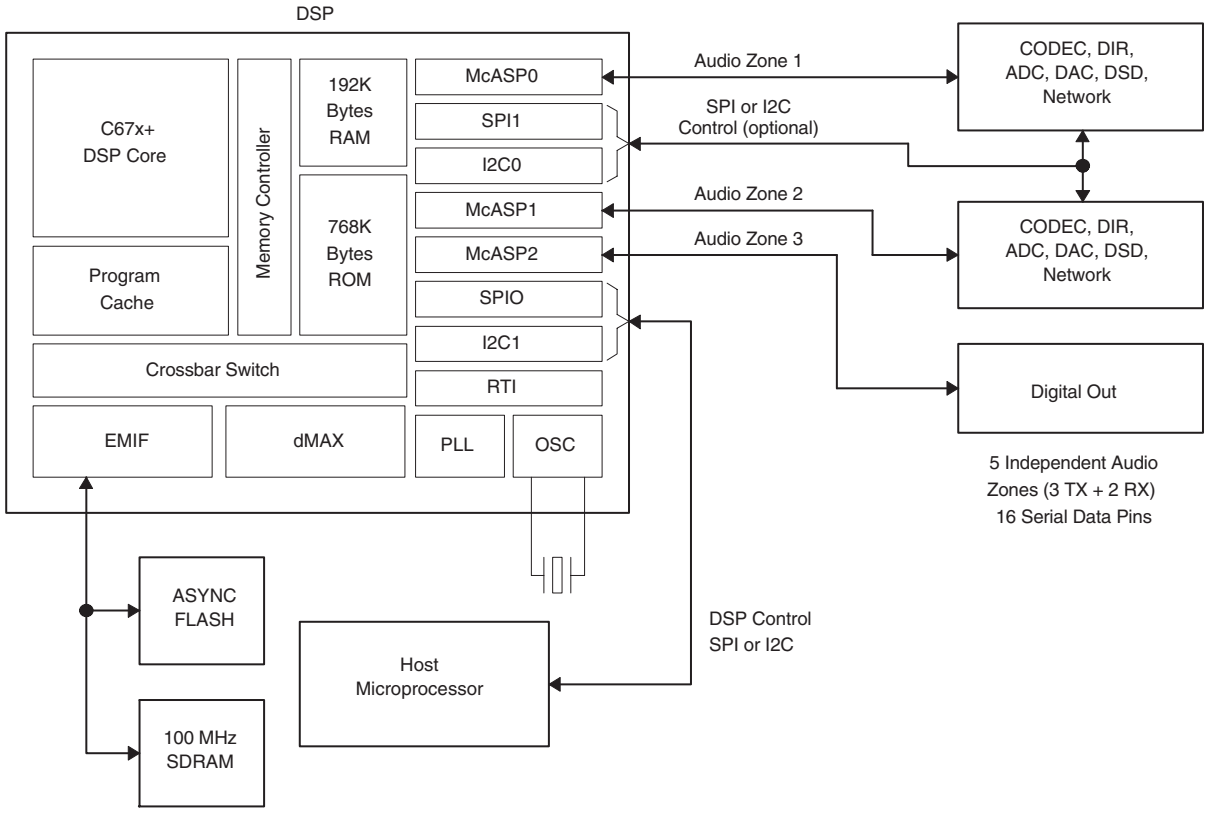
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-1

Q201 : D707E001RFP250 (32 bit Floating-Point Digital Signal Processor)-1/5

BLOCK DIAGRAM



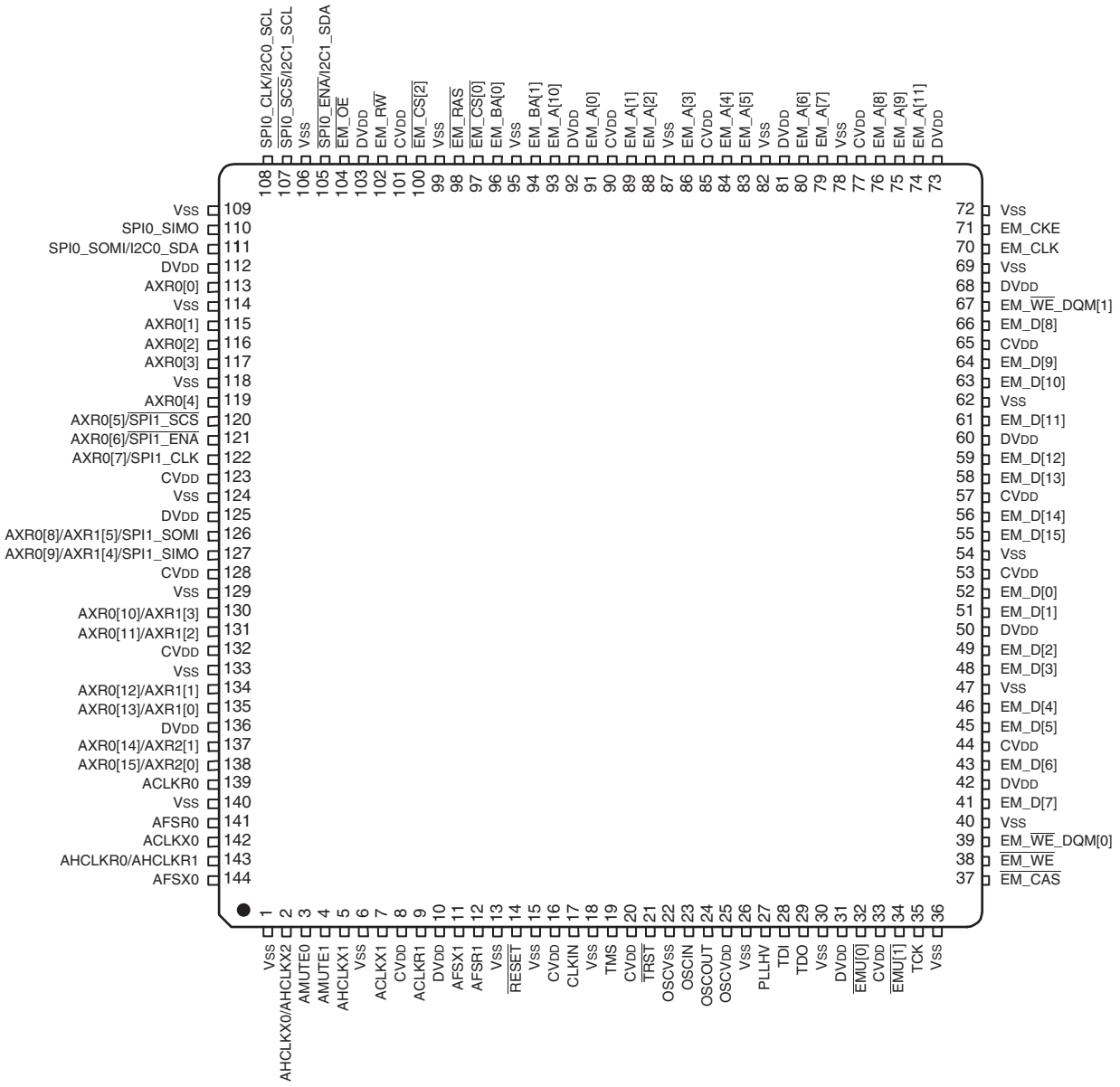
SYSTEM DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-2

Q201 : D707E001RFP250 (32 bit Floating-Point Digital Signal Processor)-2/5

PIN LAYOUT



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-3

Q201 : D707E001RFP250 (32 bit Floating-Point Digital Signal Processor)-3/5

TERMINAL DESCRIPTION

SIGNAL NAME	PIN NO.	TYPE	DESCRIPTION
External Memory Interface (EMIF) Addressand Control			
EM_A[0]	91	O	EMIF Address Bus
EM_A[1]	89	O	
EM_A[2]	88	O	
EM_A[3]	86	O	
EM_A[4]	84	O	
EM_A[5]	83	O	
EM_A[6]	80	O	
EM_A[7]	79	O	
EM_A[8]	76	O	
EM_A[9]	75	O	
EM_A[10]	93	O	
EM_A[11]	74	O	
EM_BA[0]	96	O	SDRAM Bank Address and Asynchronous Memory Low-Order Address
EM_BA[1]	94	O	
$\overline{\text{EM_CS[0]}}$	97	O	SDRAM Chip Select
$\overline{\text{EM_CS[2]}}$	100	O	Asynchronous Memory Chip Select
$\overline{\text{EM_CAS}}$	37	O	SDRAM Column Address Strobe
$\overline{\text{EM_RAS}}$	98	O	SDRAM Row Address Strobe
$\overline{\text{EM_WE}}$	38	O	SDRAM Write Enable
EM_CKE	71	O	SDRAM Clock Enable
EM_CLK	70	O	SDRAM Clock
EM_$\overline{\text{WE}}$_DQM[0]	39	O	Write Enable or Byte Enable for EM_D[7:0]
EM_$\overline{\text{WE}}$_DQM[1]	67	O	Write Enable or Byte Enable for EM_D[15:8]
$\overline{\text{EM_OE}}$	104	O	SDRAM Output Enable
EM_$\overline{\text{RW}}$	102	O	Asynchronous Memory Read/not Write
External Memory Interface (EMIF) Data Bus			
EM_D[0]	52	IO	EMIF Data Bus [Lower 16 Bits]
EM_D[1]	51	IO	
EM_D[2]	49	IO	
EM_D[3]	48	IO	
EM_D[4]	46	IO	
EM_D[5]	45	IO	
EM_D[6]	43	IO	
EM_D[7]	41	IO	
EM_D[8]	66	IO	
EM_D[9]	64	IO	
EM_D[10]	63	IO	
EM_D[11]	61	IO	
EM_D[12]	59	IO	
EM_D[13]	58	IO	
EM_D[14]	56	IO	
EM_D[15]	55	IO	

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-4

Q201 : D707E001RFP250 (32 bit Floating-Point Digital Signal Processor)-4/5

TERMINAL DESCRIPTION

SIGNAL NAME	PIN NO.	TYPE	DESCRIPTION
McASP0, McASP1, McASP2, and SPI1 Serial Ports			
AHCLKR0/AHCLKR1	143	IO	McASP0 and McASP1 Receive Master Clock
ACLKR0	139	IO	McASP0 Receive Bit Clock
AFSR0	141	IO	McASP0 Receive Frame Sync (L/R Clock)
AHCLKX0/AHCLKX2	2	IO	McASP0 and McASP2 Transmit Master Clock
ACLKX0	142	IO	McASP0 Transmit Bit Clock
AFSX0	144	IO	McASP0 Transmit Frame Sync (L/R Clock)
AMUTE0	3	O	McASP0 MUTE Output
AXR0[0]	113	IO	McASP0 Serial Data 0
AXR0[1]	115	IO	McASP0 Serial Data 1
AXR0[2]	116	IO	McASP0 Serial Data 2
AXR0[3]	117	IO	McASP0 Serial Data 3
AXR0[4]	119	IO	McASP0 Serial Data 4
AXR0[5]/$\overline{\text{SPI1_SCS}}$	120	IO	McASP0 Serial Data 5 or SPI1 Slave Chip Select
AXR0[6]/$\overline{\text{SPI1_ENA}}$	121	IO	McASP0 Serial Data 6 or SPI1 Enable (Ready)
AXR0[7]/SPI1_CLK	122	IO	McASP0 Serial Data 7 or SPI1 Serial Clock
AXR0[8]/AXR1[5]/ SPI1_SOMI	126	IO	McASP0 Serial Data 8 or McASP1 Serial Data 5 or SPI1 Data Pin Slave Out Master In
AXR0[9]/AXR1[4]/ SPI1_SIMO	127	IO	McASP0 Serial Data 9 or McASP1 Serial Data 4 or SPI1 Data Pin Slave In Master Out
AXR0[10]/AXR1[3]	130	IO	McASP0 Serial Data 10 or McASP1 Serial Data 3
AXR0[11]/AXR1[2]	131	IO	McASP0 Serial Data 11 or McASP1 Serial Data 2
AXR0[12]/AXR1[1]	134	IO	McASP0 Serial Data 12 or McASP1 Serial Data 1
AXR0[13]/AXR1[0]	135	IO	McASP0 Serial Data 13 or McASP1 Serial Data 0
AXR0[14]/AXR2[1]	137	IO	McASP0 Serial Data 14 or McASP2 Serial Data 1
AXR0[15]/AXR2[0]	138	IO	McASP0 Serial Data 15 or McASP2 Serial Data 0
ACLKR1	9	IO	McASP1 Receive Bit Clock
AFSR1	12	IO	McASP1 Receive Frame Sync (L/R Clock)
AHCLKX1	5	IO	McASP1 Transmit Master Clock
ACLKX1	7	IO	McASP1 Transmit Bit Clock
AFSX1	11	IO	McASP1 Transmit Frame Sync (L/R Clock)
AMUTE1	4	O	McASP1 MUTE Output
SPI0, I2C0, and I2C1 Serial Port Pins			
SPI0_SOMI/I2C0_SDA	111	IO	SPI0 Data Pin Slave Out Master In or I2C0 Serial Data
SPI0_SIMO	110	IO	SPI0 Data Pin Slave In Master Out
SPI0_CLK/I2C0_SCL	108	IO	SPI0 Serial Clock or I2C0 Serial Clock
$\overline{\text{SPI0_SCS}}$/I2C1_SCL	107	IO	SPI0 Slave Chip Selector I2C1 Serial Clock
$\overline{\text{SPI0_ENA}}$/I2C1_SDA	105	IO	SPI0 Enable (Ready) or I2C1 Serial Data

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-5

Q201 : D707E001RFP250 (32 bit Floating-Point Digital Signal Processor)-5/5

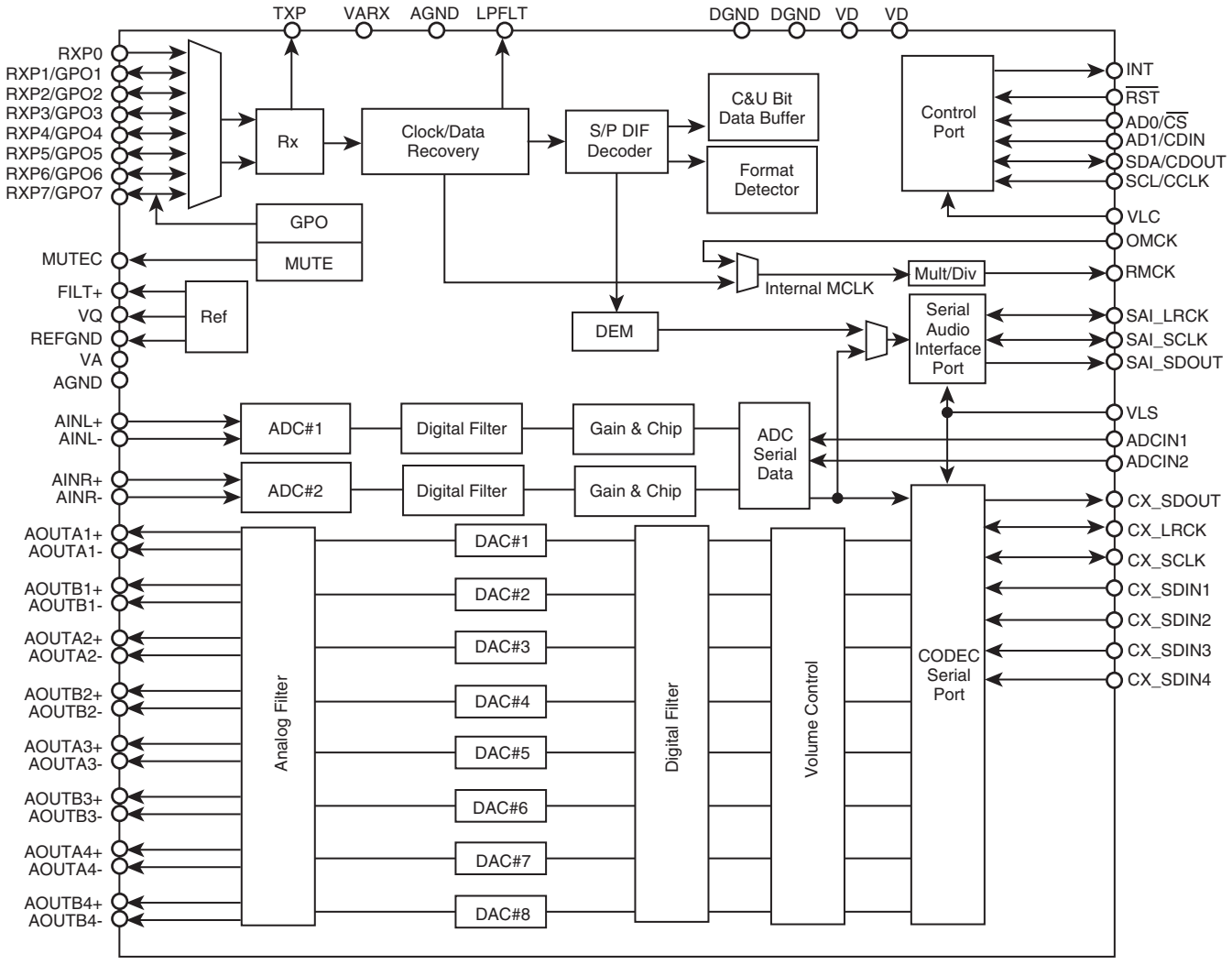
TERMINAL DESCRIPTION

SIGNAL NAME	PIN NO.	TYPE	DESCRIPTION
Clocks			
OSCIN	23	I	1.2-V OscillatorInput
OSCOUT	24	O	1.2-V OscillatorOutput
OSCVDD	25	PWR	Oscillator 1.2-V VDD tap point (for filter only)
OSCVSS	22	PWR	Oscillator VSS tap point (for filter only)
CLKIN	17	I	Alternate clock input (3.3-V LVCMOS Input)
PLLHV	27	PWR	PLL 3.3-V Supply Input (requires external filter)
Device Reset			
$\overline{\text{RESET}}$	14	I	Device reset pin
Emulation/JTAG Port			
TCK	35	I	Test Clock
TMS	19	I	Test Mode Select
TDI	28	I	Test Data In
TDO	29	OZ	Test Data Out
$\overline{\text{TRST}}$	21	I	Test Reset
$\overline{\text{EMU[0]}}$	32	IO	Emulation Pin 0
$\overline{\text{EMU[1]}}$	34	IO	Emulation Pin 1
Power Pins			
Core Supply (CVDD)	8, 16, 20, 33, 44, 53, 57, 65, 77, 85, 90, 101, 123, 128, 132		
IO Supply (DVDD)	10, 31, 42, 50, 60, 68, 73, 81, 92, 103, 112, 125, 136		
Ground (VSS)	1, 6, 13, 15, 18, 26, 30, 36, 40, 47, 54, 62, 69, 72, 78, 82, 87, 95, 99, 106, 109, 114, 118, 124, 129, 133, 140		

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-6

Q301 : CS42518 (8-Ch Codec with S/PDIF Receiver)-1/4

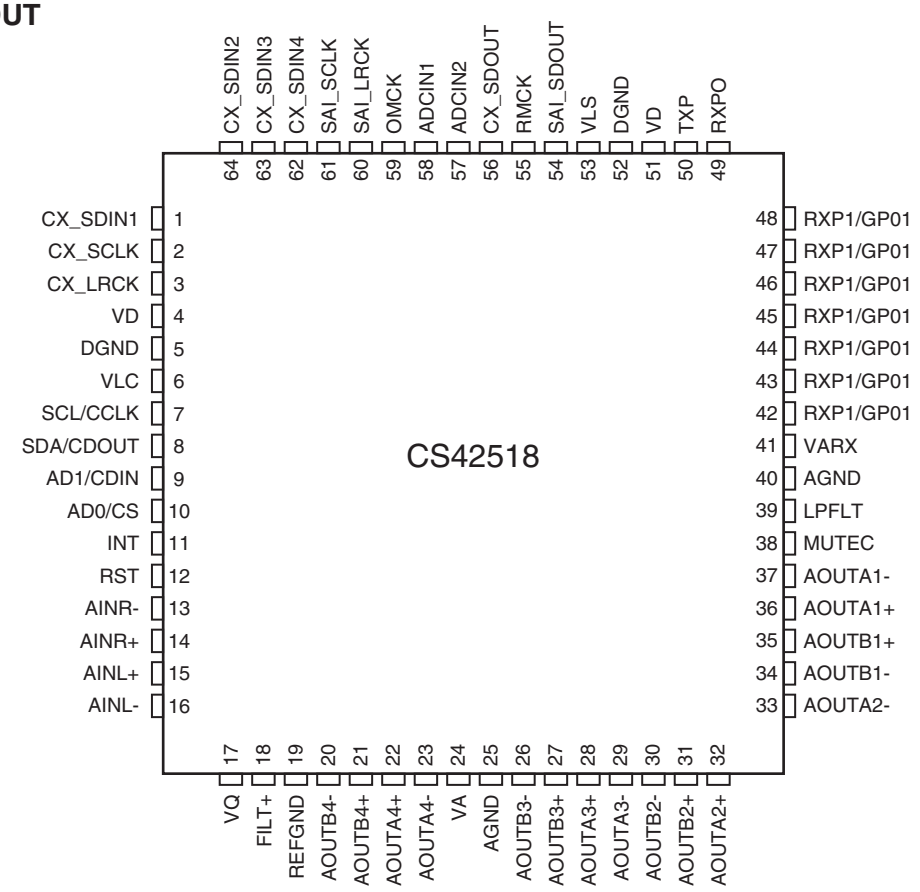
BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-7

Q301 : CS42518 (8-Ch Codec with S/PDIF Receiver)-2/4

PIN LAYOUT



TERMINAL DESCRIPTION

Name	Pin No.	Function
CX_SDIN1 CX_SDIN2 CX_SDIN3 CX_SDIN4	1 64 63 62	Codec Serial Audio Data Input (Input) - Input for two's complement serial audio data.
CX_SCLK	2	CODEC Serial Clock (Input/Output) - Serial clock for the CODEC serial audio interface.
CX_LRCK	3	CODEC Left Right Clock (Input/ Output) - Determines which channel, Left or Right, is currently active on the CODEC serial audio data line.
VD	4 51	Digital Power (Input) - Positive power supply for the digital section.
DGND	5 52	Digital Ground (Input) - Ground reference. Should be connected to digital ground.
VLC	6	Control Port Power (Input) - Determines the required signal level for the control port.
SCL/CCLK	7	Serial Control Port Clock (Input) - Serial clock for the serial control port. Requires an external pull-up resistor to the logic interface voltage in I2C mode as shown in the Typical Connection Diagram.
SDA/CDOUT	8	Serial Control Data (Input/Output) - SDA is a data I/O line in IC mode and requires an external pull-up resistor to the logic interface voltage, as shown in the Typical connection Diagram. CDOUT is the output data line for the control port interface in SPI mode.
AD1/CDIN	9	Address Bit 1 (I2C)/Serial Control Data (SPI) (Input) - AD1 a chip address pin in I2C mode; CDIN is the input data line for control port interface in SPI mode.

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-8

Q301 : CS42518 (8-Ch Codec with S/PDIF Receiver)-3/4

TERMINAL DESCRIPTION

Name	Pin No.	Function
AD0/CS	10	Address Bit 0 (I2C)/Control Port Chip Select (SPI) (INput) - AD0 is a chip address pin in I2C mode; CS is the chip select signal in SPI mode.
INT	11	Interrupt (Ountput) - The CS42518 will generate an interrupt condition as per the Interrupt Mask register.
RST	12	Reset (Input) - The device enters a low power mode and all internal registers are reset to their default settings when low.
AINR- AINR+	13 14	Differential right Channel Analog Input (Input) - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
AINL- AINL+	15 16	Differential right Channel Analog Input (Input) - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
VQ	17	Quiescent Voltage (Output) - Filter connection for internal quiescent reference voltage.
FILT+	18	Positive Voltage Reference (Output) - Positive reference voltage for the internal sampling circuits.
REFGND	19	Reference Ground (Input) - Ground reference for the internal sampling circuits.
AOUTA1 +, - AOUTB1 +, - AOUTA2 +, - AOUTB2 +, - AOUTA3 +, - AOUTB3 +, - AOUTA4 +, - AOUTB4 +, -	36, 37 35, 34 32, 33 31, 30 28, 29 27, 26 22, 23 21, 20	Differential Analog Output (Output) - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
VA VARX	24 41	Analog Power (Input) - Positive power supply for the analog section.
AGND	25 40	Analog Ground (Input) - Ground reference. Should be connected to analog ground.
MUTEC	38	Mute Control (Output) - The Mute Control pin outputs high impedance following an initial power -on condition or whenever the PDN bit is set to a "1", forcing the codec into power -down mode. The signal will remain in a high impedance state as long as the part is in power-down mode. The Mute Control pin goes to the selected "active" state during reset, muting, or if the master clock to left/right clock frequency ratio is incorrect. This pin is intended to be used as a control for external mute circuits to prevent the clicks and pops that can occur in any single supply system. The use of external mute circuits are not mandatoy but may be desired for designs requiring the absolute minimum in extraneous clicks and pops.
LPFLT	39	PLL Loop Filer (Output) - An RC network should be connected between this pin and ground.
RXP7/GPO7 RXP6/GPO6 RXP5/GPO5 RXP4/GPO4 RXP3/GPO3 RXP2/GPO2 RXP1/GPO1	42 43 44 45 46 47 48	S/PDIF Receiver Input/ General Purpose Output (Input/ Output) - Receiver inputs for S/PDIF encoded data. The CS42518 has an internal 8:2 multiplexer to select the active receiver port, according to the Receiver Mode Control 2 resister. These pins can also be configured as general purpose output pins, ADC Overflow indicators or Mute Control outputs according to the RXP/General Purpose Pin Control resisters.
RXP0	49	S/PDIF Receiver Input (Input) - Dedicated receiver input for S/PDIF encoded data.
TXP	50	S/PDIF Transmitter Output (Output) - S/PDIF encoded data output, mapped directly from one of the receiver inputs as indicated by the Receiver Mode Control 2 resister.
VLP	53	Serial Port Interface Power (Input) - Determines the required signal level for the serial port interfaces.
SAI_SDOUT	54	Serial Audio Interface Serial Data Output (Output) - Output for two's complement serial audio PCM data from the S/PDIF incoming stream. This pin can also be configured to transmit the output of the internal and external ADCs.
RMCK	55	Recovered Master Clock (Output) - Recovered master clock output from the External Clock Reference

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-9

Q301 : CS42518 (8-Ch Codec with S/PDIF Receiver)-4/4

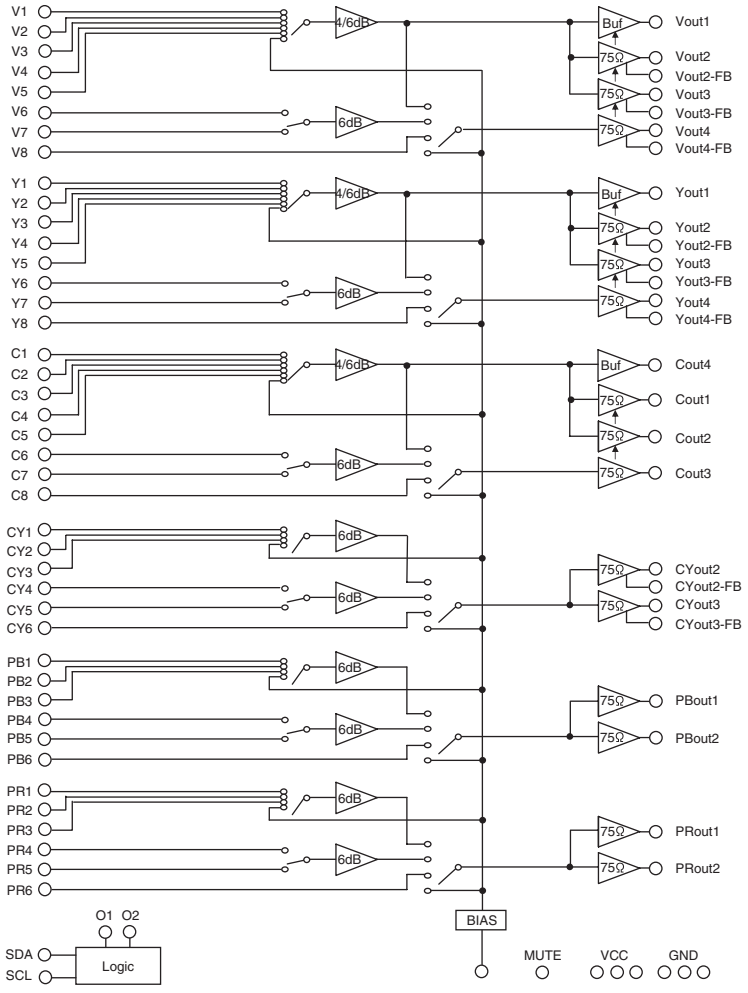
TERMINAL DESCRIPTION

Name	Pin No.	Function
CL_SDOUT	56	CODEC Serial Data Output (Output) - Output for two's complement serial audio data the internal and external ADCs.
ADCIN1 ADCIN2	58 57	External ADC Serial Input (Input) - The CS42518 provides for up two external stereo analog to digital converter inputs to provide a maximum of six channels on serial data output line when the CS42518 is placed in One Line mode.
OMCK	59	External Reference Clock (Input) - External clock reference that must be within the ranges specified in currently active on the serial audio data line.
SAI_LRCK	60	Serial Audio Interface Left/Right Clock (Input/Output) - Determines which channel, Left of Right, is currently active on the serial audio data line.
SAI_LRCK	61	Serial Audio Interface Serial Clock (Input/Output) - Serial clock for the Serial Audio Interface.

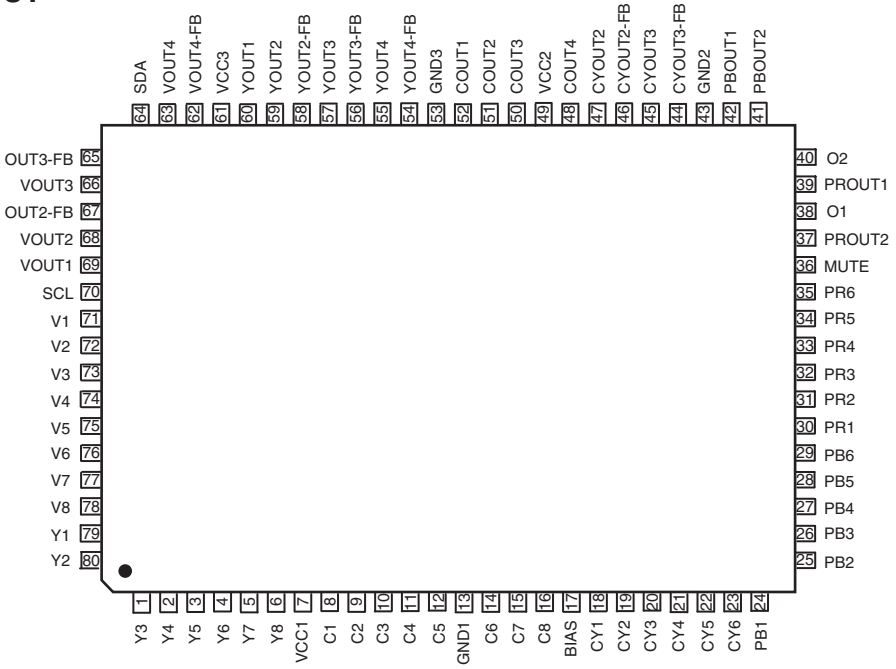
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-10

Q4002 : AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs) -1/3

BLOCK DIAGRAM



PIN LAYOUT



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-11

Q4002 : AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs) -2/3

TERMINAL DESCRIPTION

Pin No.	Pin name	Type	Description
1	Y3	In	Luminance signal input 3
2	Y4	In	Luminance signal input 4
3	Y5	In	Luminance signal input 5
4	Y6	In	Luminance signal input 6
5	Y7	In	Luminance signal input 7
6	Y8	In	Luminance signal input 8
7	VCC1	Power supply	5.0V power supply
8	C1	In	Chrominance signal input 1
9	C2	In	Chrominance signal input 2
10	C3	In	Chrominance signal input 3
11	C4	In	Chrominance signal input 4
12	C5	In	Chrominance signal input 5
13	GND1	Ground	Ground
14	C6	In	Chrominance signal input 6
15	C7	In	Chrominance signal input 7
16	C8	In	Chrominance signal input 8
17	BIAS	Output	Bias voltage
18	CY1	In	CY1 signal input
19	CY2	In	CY2 signal input
20	CY3	In	CY3 signal input
21	CY4	In	CY4 signal input
22	CY5	In	CY5 signal input
23	CY6	In	CY6 signal input
24	PB1	In	PB1 signal input
25	PB2	In	PB2 signal input
26	PB3	In	PB3 signal input
27	PB4	In	PB4 signal input
28	PB5	In	PB5 signal input
29	PB6	In	PB6 signal input
30	PR1	In	PR1 signal input
31	PR2	In	PR2 signal input
32	PR3	In	PR3 signal input
33	PR4	In	PR4 signal input
34	PR5	In	PR5 signal input
35	PR6	In	PR6 signal input
36	MUTE	In	Mute control pin
37	PROUT2	Out	PROUT2 signal output
38	O1	Out	General output 1
39	PROUT1	Out	PROUT1 signal output
40	O2	Out	General output 2

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-12

Q4002 : AN15881A (Video SW for TV with Multi-signal 14 Inputs and 4 Outputs) -3/3

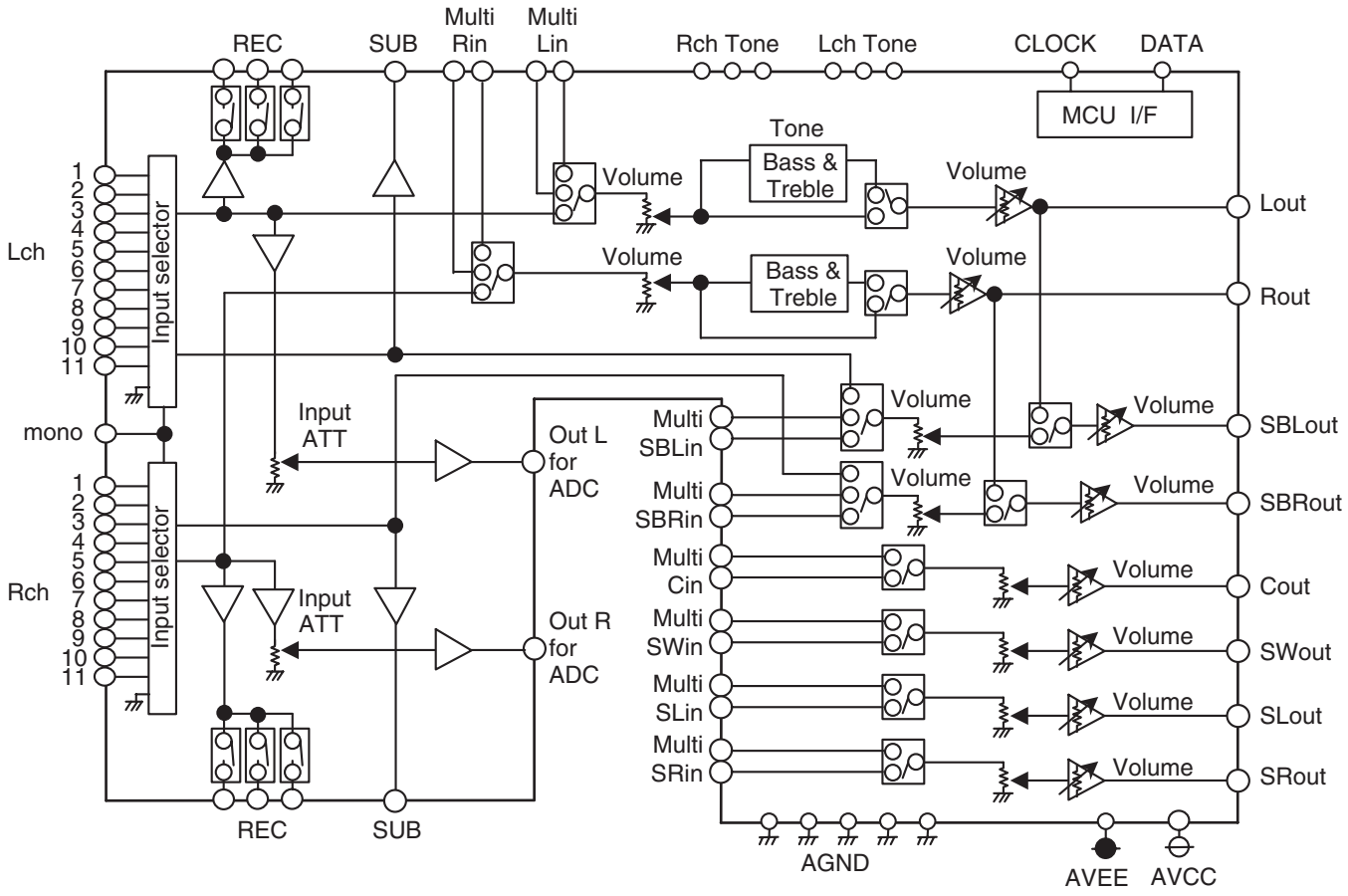
TERMINAL DESCRIPTION

Pin No.	Pin name	Type	Description
41	PBOUT2	Out	PBOUT2 signal output
42	PBOUT1	Out	PBOUT1 signal output
43	GND2	Ground	Ground
44	CYOUT3-FB	In	CYOUT3 feedback input
45	CYOUT3	Out	CYOUT3 signal output
46	CYOUT2-FB	In	CYOUT2 feedback input
47	CYOUT2	Out	CYOUT2 signal output
48	COUT4	Out	COUT4 signal output
49	VCC2	Power supply	5.0V power supply
50	COUT3	Out	COUT3 signal output
51	COUT2	Out	COUT2 signal output
52	COUT1	Out	COUT1 signal output
53	GND3	Ground	Ground
54	YOUT4-FB	In	YOUT4 feedback input
55	YOUT4	Out	YOUT4 signal output
56	YOUT3-FB	In	YOUT3 feedback input
57	YOUT3	Out	YOUT3 signal output
58	YOUT2-FB	In	YOUT2 feedback input
59	YOUT2	Out	YOUT2 signal output
60	YOUT1	Out	YOUT1 signal output
61	VCC3	Power supply	5.0V power supply
62	VOUT4-FB	In	VOUT4 feedback input
63	VOUT4	Out	VOUT4 signal output
64	SDA	In	I^2C bus data input
65	VOUT3-FB	In	VOUT3 feedback input
66	VOUT3	Out	VOUT3 signal output
67	VOUT2-FB	In	VOUT2 feedback input
68	VOUT2	Out	VOUT2 signal output
69	VOUT1	Out	VOUT1 signal output
70	SCL	In	I^2C bus clock input
71	V1	In	Video composite signal input 1
72	V2	In	Video composite signal input 2
73	V3	In	Video composite signal input 3
74	V4	In	Video composite signal input 4
75	V5	In	Video composite signal input 5
76	V6	In	Video composite signal input 6
78	V7	In	Video composite signal input 7
77	V8	In	Video composite signal input 8
79	Y1	In	Luminance signal input 1
80	Y2	In	Luminance signal input 2

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-13

Q5501 : R2S15211FP (8 ch Electronic Volume and 11 Input Selector and Tone Control)-1/3

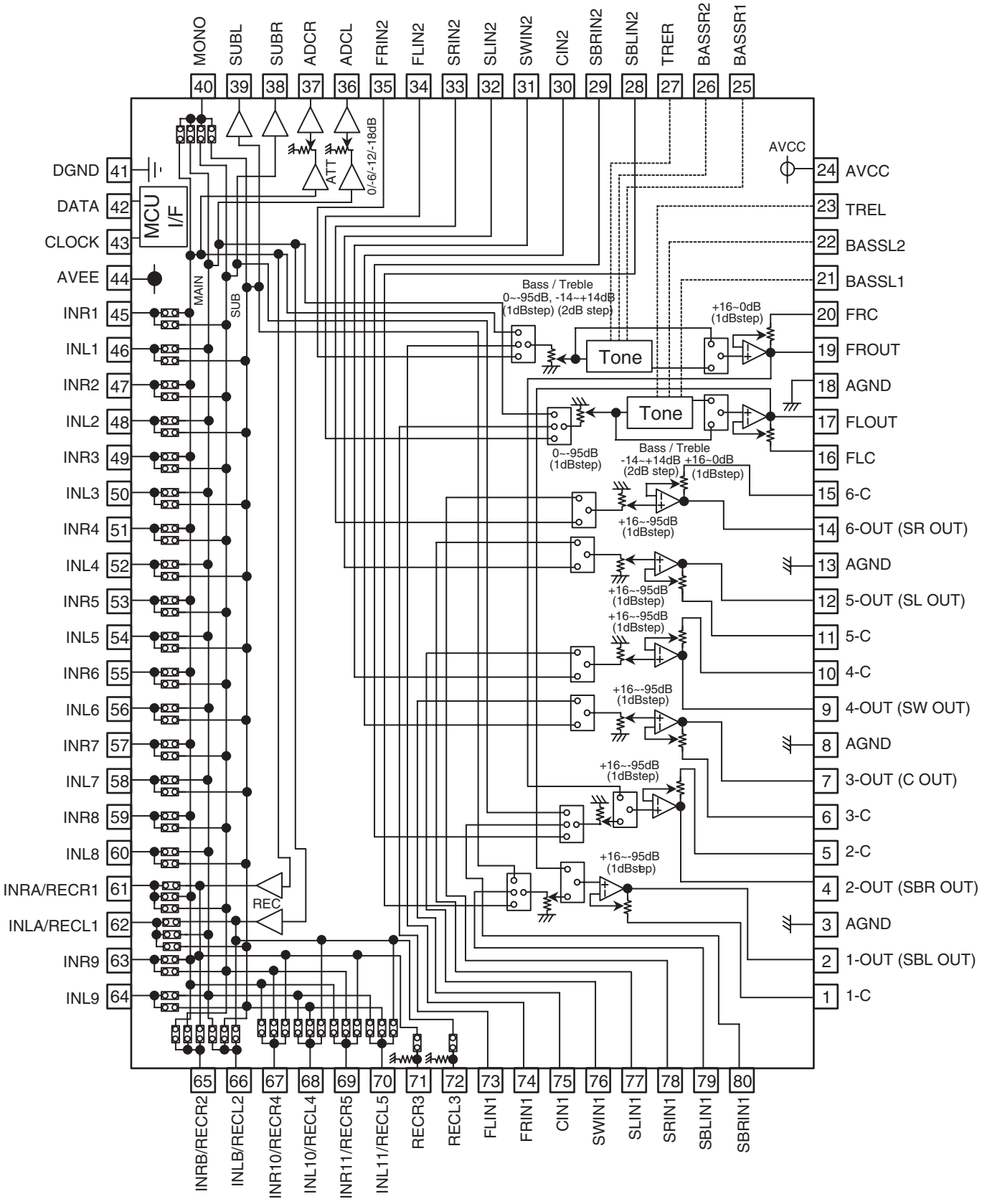
SYSTEM DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-14

Q5501 : R2S15211FP (8 ch Electronic Volume and 11 Input Selector and Tone Control)-2/3

BLOCK DIAGRAM



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-15

Q5501 : R2S15211FP (8 ch Electronic Volume and 11 Input Selector and Tone Control)-3/3

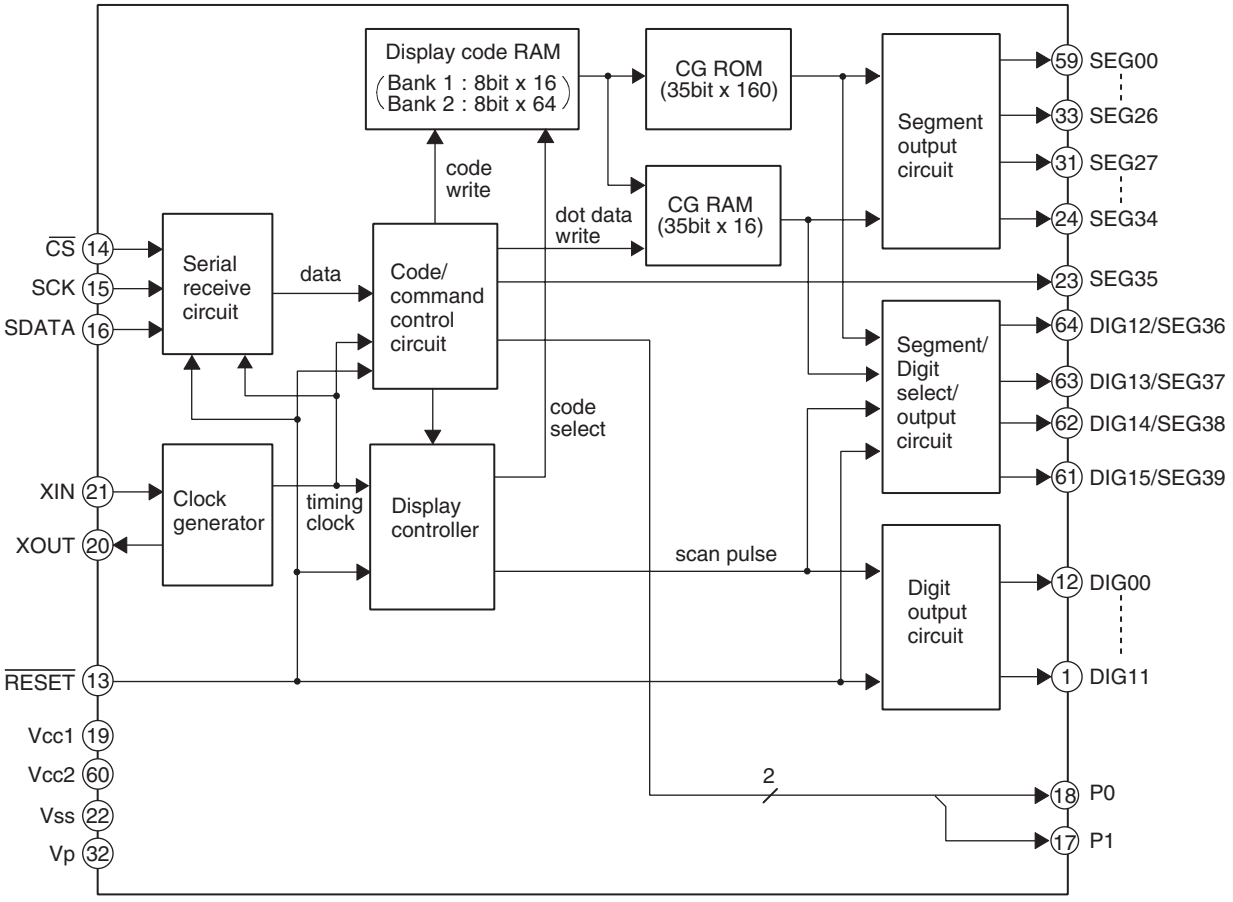
TERMINAL DESCRIPTION

PIN No.	Name	Function
19,17, 14,12, 9,7, 4,2	FROUT, FLOUT, 6-OUT, 5-OUT, 4-OUT, 3-OUT, 2-OUT, 1-OUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
20,16, 15,11, 10,6, 5,1	FRC, FLC, 6-C, 5-C, 4-C, 3-C, 2-C, 1-C	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
3,8, 13,18	AGND	Analog ground of internal circuit
23,27	TREL, TRER	Frequency characteristic setting pin of L/R channel tone control(Treble)
21,22, 25,26	BASSL1, BASSL2 BASSR1, BASSR2	Frequency characteristic setting pin of L/R channel tone control(Bass)
24	AVCC	Positive power supply to internal circuit
35,34, 33,32, 31,30, 29,28	FRIN2, FLIN2, SRN2, SLIN2, SWIN2, CIN2, SBRIN2, SBLIN2	Input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
73,74, 75,76, 77,78, 79,80	FLIN1, FRIN1, CIN1, SWIN1, SLIN1, SRIN1, SBLIN1, SBRIN1	
41	DGND	Digital ground of internal circuit
42	DATA	Input pin of control data
43	CLOCK	Input pin of control clock
44	AVEE	Negative power supply to internal circuit
46,48,50, 52,54,56, 58,60,64	INL1, INL2, INL3, INL4, INL5, INL6, INL7, INL8, INL9	Input pin of L/R channel (Input Selector)
45,47,49, 51,53,55, 57,59,63	INR1, INR2, INR3, INR4, INR5, INR6, INR7, INR8, INR9	
40	MONO	Input pin of monaural (Input Selector)
38,39	SUBL, SUBR	Output pin for L/R channel SUB Output
36,37	ADCL, ADCR	Output pin for L/R channel ADC
72	RECL3	Output pin for L/R channel REC Output
71	RECR3	
61,62, 65,66, 67,68, 69,70	INRA/RECR1, INLA/RECL1, INRB/RECR2, INLB/RECL2, INR10/RECR4, INL10/RECL4, INR11/RECR5, INL11/RECL5	Input pin of L/R channel (Input Selector)/ Output pin for L/R channel REC Output

IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-16

Q7003 : M66005-0001AHP (FL Tube Driver)

BLOCK DIAGRAM



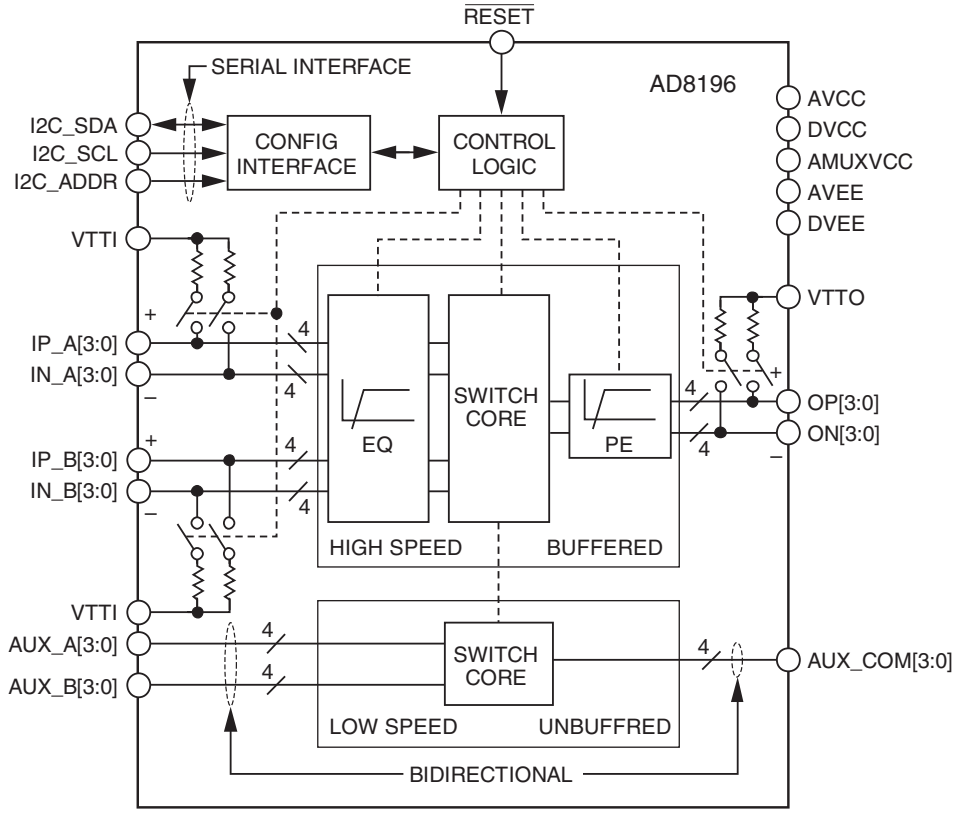
TERMINAL DESCRIPTION

PIN NO.	SYMBOL	PIN NAME	DESCRIPTION
13	$\overline{\text{RESET}}$	Reset input	This pin is used to initialize the internal state of the M66004.
14	$\overline{\text{CS}}$	Chip select input	"L" : Communication with the MCU is possible. "H" : Any instruction from the MCU is neglected.
15	SCK	Shift clock input	At the rising edge from "L" to "H", input data is shifted.
16	SDATA	Serial data input	Character code or command data to display is input from MSB.
21, 20	XIN, XOUT	Clock input Clock output	This pin is used to connect a resister and a capacitor externally to set oscillation frequency.
1~12 61~64	DIG00 ~ DIG15	Digit output	These pins are used to connect to digit pins of VFD.
23~31 33~59	SEG00 ~ SEG39	Segment output	These pins are used to connect to segment pins of VFD.
17, 18	P0, P1		Output port (static operation)
19	VCC1		Positive power supply for internal logic.
60	VCC2		Positive power supply for high-pressure-resistant output port.
22	VSS		GND
32	VP		Negative power supply for VFD drive.

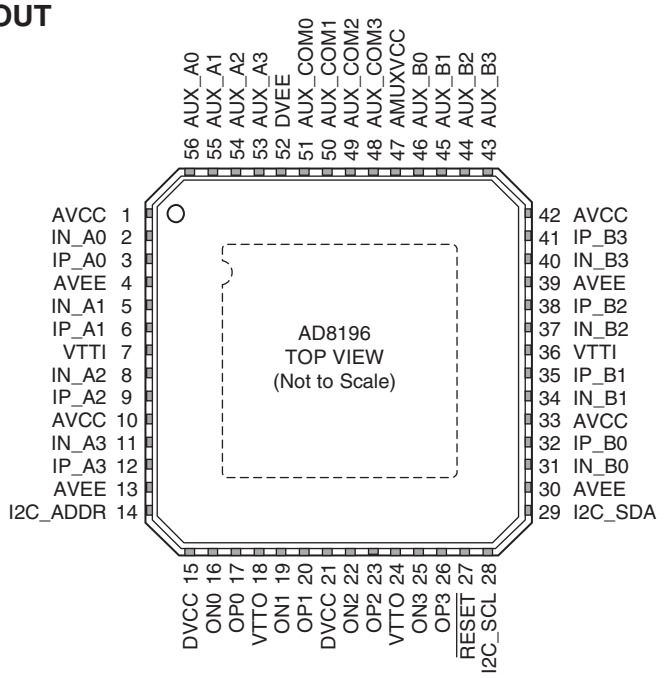
IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-17

Q8003 : AD8196 (HDMI/DVI Switch with Equalization)-1/2

BLOCK DIAGRAM



PIN LAYOUT



IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-18

Q8003 : AD8196 (HDMI/DVI Switch with Equalization)-2/2

TERMINAL DESCRIPTION

Pin No.	Mnemonic	Type	Description
1, 10, 33, 42	AVCC	Power	Positive Analog Supply. 3.3 V nominal.
2	IN_A0	HS I	High Speed Input Complement.
3	IP_A0	HS I	High Speed Input.
4, 13, 30, 39, ePAD	AVEE	Power	Negative Analog Supply. 0 V nominal.
5	IN_A1	HS I	High Speed Input Complement.
6	IP_A1	HS I	High Speed Input.
7, 36	VTTI	Power	Input Termination Supply. Nominally connected to AVCC.
8	IN_A2	HS I	High Speed Input Complement.
9	IP_A2	HS I	High Speed Input.
11	IN_A3	HS I	High Speed Input Complement.
12	IP_A3	HS I	High Speed Input.
14	I2C_ADDR	Control	I^2C Address LSB.
15, 21	DVCC	Power	Positive Digital Power Supply. 3.3 V nominal.
16	ON0	HS O	High Speed Output Complement.
17	OP0	HS O	High Speed Output.
18, 24	VTTO	Power	Output Termination Supply. Nominally connected to AVCC.
19	ON1	HS O	High Speed Output Complement.
20	OP1	HS O	High Speed Output.
22	ON2	HS O	High Speed Output Complement.
23	OP2	HS O	High Speed Output.
25	ON3	HS O	High Speed Output Complement.
26	OP3	HS O	High Speed Output.
27	$\overline{\text{RESET}}$	Control	Configuration Registers Reset. This pin is normally pulled up to DVCC.
28	I2C_SCL	Control	I^2C Clock.
29	I2C_SDA	Control	I^2C Data.
31	IN_B0	HS I	High Speed Input Complement.
32	IP_B0	HS I	High Speed Input.
34	IN_B1	HS I	High Speed Input Complement.
35	IP_B1	HS I	High Speed Input.
37	IN_B2	HS I	High Speed Input Complement.
38	IP_B2	HS I	High Speed Input.
40	IN_B3	HS I	High Speed Input Complement.
41	IP_B3	HS I	High Speed Input.
43	AUX_B3	LS I/O	Low Speed Input/Output.
44	AUX_B2	LS I/O	Low Speed Input/Output.
45	AUX_B1	LS I/O	Low Speed Input/Output.
46	AUX_B0	LS I/O	Low Speed Input/Output.
47	AMUXVCC	Power	Positive Auxiliary Switch Supply. 5 V typical.
48	AUX_COM3	LS I/O	Low Speed Common Input/Output.
49	AUX_COM2	LS I/O	Low Speed Common Input/Output.
50	AUX_COM1	LS I/O	Low Speed Common Input/Output.
51	AUX_COM0	LS I/O	Low Speed Common Input/Output.
52	DVEE	Power	Negative Digital and Auxiliary Switch Power Supply. 0 V nominal.
53	AUX_A3	LS I/O	Low Speed Input/Output.
54	AUX_A2	LS I/O	Low Speed Input/Output.
55	AUX_A1	LS I/O	Low Speed Input/Output.
56	AUX_A0	LS I/O	Low Speed Input/Output.

HS = high speed, LS = low speed, I = input, O = output.

MICROPROCESSOR TERMINAL DESCRIPTIONS-1

Q701 : M30626FHPFP

Pin No.	Pin Name	I/O	Act.	Description
1	HDMSDA	O	H	Data output for HDMI switch IC (AD8190).
2	HDMSCL	O	CLK	Clock output for HDMI switch IC (AD8190).
3	VCRST	O	H	Reset control output for video encoder IC and decoder IC.
4	VMUT	O	L	Mute control output for video switch IC (AN15880).
5	NU	---	---	Not used.
6	XMLNK	I	H	Input of XM link active signal.
7	XMANT	I	H	Input of XM ANT REV signal.
8	BYTE	---	---	Select of external bus width. Connect to ground.
9	CNVSS	---	---	Select of processor mode.
10	RDSDATA	I	H	RDS data input (PP type) / Not used (other type).
11	XMSRSEL	O	H	Output of select XM/ SIRIUS.
12	RESET	I	L	Reset input.
13	XOUT	O	---	Connected to oscillator.
14	VSS	---	---	Ground.
15	XIN	I	---	Connected to oscillator.
16	VCC1	---	---	Power supply.
17	NU	---	---	Not used.
18	POFF	I	L	Power failure detect input.
19	VSYNC	I	L	Not used.
20	RDSCLK/XMERRRIRQ	I	L	XM IC interrupt detect(D type) / RDS clock input(PP type) / Not used(others).
21	XMCOMSEL	O	H	Control output of XM IC.
22	XMDACRST	O	L	Reset control output XM DAC.
23	DIRINT0	I	H	Unlock detect input of DIR (CS42518).
24	DSPCLK	O	H	Clock output of DSP.
25	DSPINT2	I	L	Detect input of DSP.
26	DEC	I	L	Detect input of DSP.
27	NIC	I	L	Detect input of DSP.
28	SDET	I	L	Detect input of video and S-video.
29	VCSCL/PLLSCL	O	CLK	Video encoder / decoder clock output / Tuner unit clock output.
30	VCSDA/PLLSCL	I/O	H	Video encoder / decoder data output / Tuner unit data output.
31	FTXD	O	H	Writing port of flash microprocessor.
32	FRXD	I	H	Writing port of flash microprocessor.
33	FCLK	O	CLK	Writing port of flash microprocessor.
34	FBUSY	O	H	Writing port of flash microprocessor.
35	XMSRTXD	O	H	Data output for XM IC / SIRIUS UART.
36	XMSRRXD	I	H	Data input from XM IC / SIRIUS UART.
37	XMRST	O	L	XM IC reset control output.
38	DIRCS	O	L	DIR (CS42518) chip select output.
39	DIRRST	O	L	DIR (CS42518) reset control output.
40	DSPCS	O	L	DSP chip select output.
41	FEPM	I	H	Writing port of flash microprocessor.
42	DSPRST	O	L	Reset control output for DSP.
43	DIGCLK	O	CLK	Clock output for DIR (CS42518).
44	DIGSDI	I	H	Data input from DIR (CS42518).
45	DIGSDO	O	H	Data output for DIR (CS42518).
46	FCE	I	H	Writing port of flash microprocessor.
47	AMUT	O	H	Control output of audio mute.
48	SPRLB	O	H	Control output for speaker (speakers-B) relay.
49	SPRLSB	O	H	Control output for speaker (surround back) relay.
50	SPRLCS	O	H	Control output for speaker (Center/surround) relay.

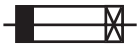
MICROPROCESSOR TERMINAL DESCRIPTIONS-2

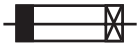
Q701 : M30626FHPFP

Pin No.	Pin Name	I/O	Act.	Description
51	SPRLF	O	H	Control output for speaker (front) relay.
52	EEP_SDA	I/O	H	Data output / input to EEPROM (S24CS16A).
53	VOLDAT	O	H	Data output to selector and volume IC (R2S15211).
54	VOLCLK	O	CLK	Clock output to selector and volume IC (R2S15211).
55	EEP_SCL	O	CLK	Clock output to EEPROM (S24CS16A) I2C.
56	VPOWER	O	H	Control output for power supply of video section. Not used (D type).
57	APOWER	O	H	Control output for main power supply.
58	POFF2	I	L	POFF2 detect input.
59	FANH	O	L	Control output of cooling fan. “L” = High speed.
60	FANCTRL	O	L	Control output of cooling fan. “L” = ON.
61	---	---	---	Not used.
62	VCC2	---	---	Power supply.
63	SEC1H	O	H	Control output for power supply of power amplifier section.
64	VSS	---	---	Ground.
65	PROTECT	I	H	Detect input of speaker protect.
66	VOLH	I	A/D	Detect input of speaker output level.
67	THERMAL	I	A/D	Thermal detect input.
68	INIT3	I	A/D	Input for initial setting.
69	INIT2	I	A/D	Input for initial setting.
70	INIT1	I	A/D	Input for initial setting.
71	BAND	I	A/D	Input for tuner frequency setting.
72	SYSOUT	O	L	RI (system control) output.
73	SYSIN	I	H	RI (system control) input.
74	---	---	---	Not used.
75	REMIN	I	L	Control signal input from remote sensor.
76	STEREO	I	L	FM stereo detect input.
77	SD	I	L	FM/AM tuned detect input.
78	HPDET	I	H	Headphone detect input.
79	VOLB	I	H	Signal input from rotary encoder (Master volume).
80	VOLA	I	H	Signal input from rotary encoder (Master volume).
81	---	---	---	Not used.
82	MICDET	I	L	Detection signal input of SETUP MIC.
83	MICMUT	O	H	Control output of MIC mute.
84	LEDSTBY	O	L	Control output of Standby LED.
85	FLDSDO	O	H	Data output to FL driver (M66005).
86	FLDCLK	O	CLK	Clock output to FL driver (M66005).
87	FLDCS	O	L	Chip select output to FL driver (M66005).
88	FLDRST	O	L	Reset control output to FL driver (M66005).
89	---	---	---	Not used.
90	---	---	---	Not used.
91	KEYINT1	I	L	Key interrupt input.
92	KEYINT0	I	L	Key interrupt input.
93	KEY3	I	A/D	Key input.
94	KEY2	I	A/D	Key input.
95	KEY1	I	A/D	Key input.
96	AVSS	---	---	Ground for A/D converter.
97	KEY0	I	A/D	Key input.
98	VREF	---	---	Power supply for reference of A/D converter.
99	AVCC	---	---	Power supply.
100	HDMRST	O	L	Reset output to HDMI switch (AD8190).

SERVICE PROCEDURE

1. Replacing the fuses

 This symbol located near the fuse indicates that the fuse used is show operating type, For continued protection against fire hazard, replace with same type fuse, For fuse rating, refer to the marking adjacent to the symbol.

 Ce symbole indique que le fusible utilise est e lent. Pour une protection permanente, n'utiliser que des fusibles de meme type. Ce demier est indique la qu le present symbol est apposre.

REF NO.	PART NAME	DESCRIPTION	PART NO.	REMARKS
F901	FUSE	8A-UL/T-233	252329GR	!
F901 or	FUSE	8A-T/UL-ST2	252261GR	!
F6901	FUSE	10A-UL/T-233	252330GR	!
F6901 or	FUSE	10A-T/UL-ST2	252333GR	!
F6902	FUSE	10A-UL/T-233	252330GR	!
F6902 or	FUSE	10A-T/UL-ST2	252333GR	!

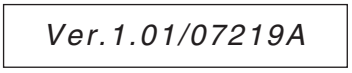
2. To initialize the unit

1. Press and hold down VCR/DVR button, then press STANDBY/ON button when the unit is powered on.
2. After " *Clear* " is displayed, the preset memory and each mode stored in the memory, are initialized and will return to the factory settings.

3. To check version of microprocessor

1. Press and hold down DISPLAY button, then press STANDBY/ON button when the unit is powered on. The version will be displayed on FL display only for 3 seconds.

FL display <EX.>



2. Press STANDBY/ON button to power off.

OPERATION CHECK-1

SPEAKER PROTECT-1 (DC VOLTAGE DETECTION)

[When]

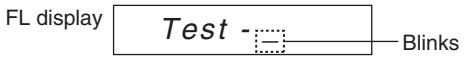
1. Exchange power transistors (Q6050 - Q6054, Q6060 - Q6064).
2. Exchange amplifier PC board ass'y (NAAF-8779).

<Note>

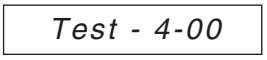
No load. No input.

[Procedure]

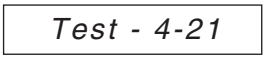
1. Press and hold down CD button, then press STANDBY/ON button while the unit is powered on.
   " *Test - _* " is displayed only for 5 seconds.



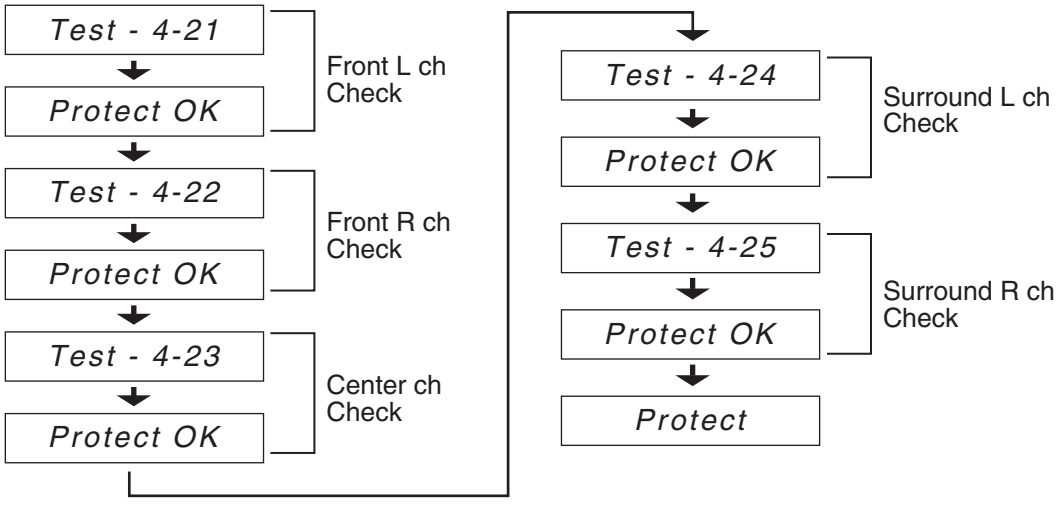
2. Press AUX button while the characters of " *Test - _* " are displayed.
   The unit will be in the state of " *Test-4-00* ".



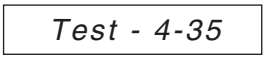
3. Repeatedly press + (TONE) button until the characters of " *Test-4-21* " are displayed.



Check whether the operation starts and continues automatically as follows.



If all channels are OK, the characters of " *Test-4-35* " are displayed.



4. Press STANDBY/ON button.

OPERATION CHECK-2

SPEAKER PROTECT-2 (CURRENT DETECTION)

[When]

1. Exchange power transistors (Q6050 - Q6054, Q6060 - Q6064).
2. Exchange amplifier PC board ass'y (NAAF-8779).

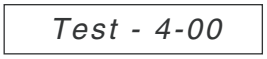
<Note>

1. No input.
2. Do not check two or more channels at the same time.
3. Do not connect a dummy load to speaker terminal longer than 2 seconds.

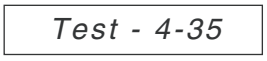
[Procedure]

1. Press and hold down CD button, then press STANDBY/ON button while the unit is powered on.
   " *Test - _* " is displayed only for 5 seconds.

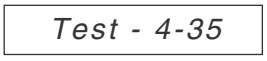
2. Press AUX button, while " *Test - _* " is displayed.
   The unit will be in the state of " *Test-4-00* ".



3. Repeatedly press **+** (TONE) button until " *Test-4-35* " is displayed.

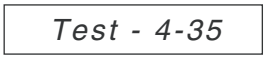


4. Connect the dummy load of 3 ohms to the Front L ch speaker terminals.
   At this time, check that the speaker relay is not turned off.



5. Connect the dummy load of 1 ohm to the Front L ch speaker terminals.
   At this time, check that the speaker relay is turned off and " *Protect* " is displayed.

   Disconnect the dummy load immediately after checking the display of " *Protect* ".



6. Check other channels according to the same procedure as 4 and 5.

7. Press the STANDBY/ON button.

OPERATION CHECK-3

CONTROL OF POWER SUPPLY (OUTPUT SENSOR AND THERMAL SENSOR)

[When]

1. Exchange power transistors (Q6050 - Q6054, Q6060 - Q6064).
2. Exchange power amplifier PC board ass'y (NAAF-8779).
3. Exchange thermal sensor PC board ass'y (NAETC-8781).

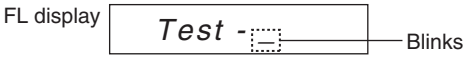
<Note>

No output. No input.

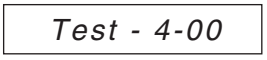
[Procedure]

Output sensor

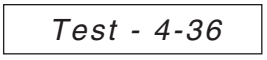
1. Press and hold down CD button, then press STANDBY/ON button while the unit is powered on.
   " *Test - _* " is displayed only for 5 seconds.



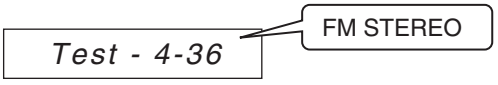
2. Press AUX button while " *Test - _* " is displayed.
   The unit will be in the state of " *Test-4-00* ".



3. Repeatedly press **+** (TONE) button until " *Test-4-36* " is displayed.



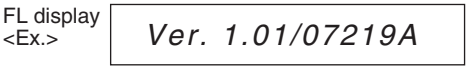
4. At this time, check that the red characters of " FM STEREO " is displayed.
   And, check that the relays RL6901 and RL6902 are turned off in 2 or 3 seconds.



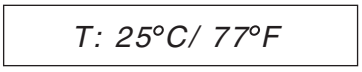
5. Press STANDBY/ON button.

Thermal sensor

1. Press and hold down DISPLAY button, then press STANDBY/ON button when the unit is powered on.
   The microprocessor version will be displayed for 3 seconds.



2. Press TONE button while the version is displayed.



3. Confirm that the displayed temperature is within +/-20 °C from the ambient temperature.

4. Press STANDBY/ON button.

OPERATION CHECK-4

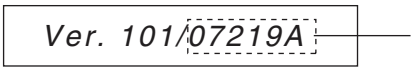
DEBUG MODE-1

The operations of DSP and DIR etc are able to checked by the information displayed on FL in this debug mode.
This information will help to analysing digital audio no sound trouble.

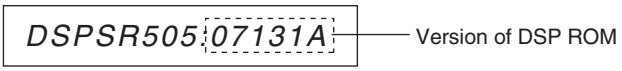
To set in Debug mode

1. Press and hold down DISPLAY button, then press STANDBY/ON button while the unit is powered on.
   The version of microprocessor is displayed only for 3 seconds.

FL display <Ex.>



2. Press + (TONE) button within 3 seconds above, the version of DSP ROM version will be displayed for 5 seconds.



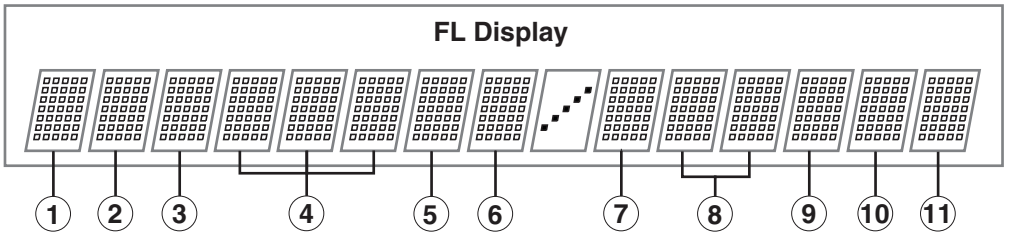
2. Press DISPLAY button while the DSP version is displayed. The status of DSP and DIR etc will be displayed.

DSP Debug mode

To exit

Press STANDBY/ON button.

Content of Display



---------- DIR ----------

① DIR Input
- E = UNLOCK
- = LOCK

② Digital Selector
- 0 = None
- 1 = COAXIAL
- 2 = ---
- 3 = OPT 1
- 4 = OPT 2
- 5 = ---
- 6 = OPT 3
- 7 = ---

③ DIR Status
- D = Digital
- A = Analog
- M = Multich
- P = Multich PCM
- p = PCM Fixed
- d = DTS Fixed

④ Sampling Frequency and Emphasis
- 32K = 32 kHz without Emphasis
- 44K = 44.1 kHz without Emphasis
- 48K = 48kHz without Emphasis
- 64K = 64 kHz
- 88K = 88.2 kHz
- 96K = 96 kHz
- 176 = 176.4 kHz
- 192 = 192 kHz
- 32e = 32 kHz with Emphasis
- 44e = 44.1 kHz with Emphasis
- 48e = 48 kHz with Emphasis

⑤ CODEC Clock Mode
- N = Normal
- U = Up Sampling
- H = High Sampling (Double Rate)
- D = Down Sampling
- Q = Quad Rate

⑥ DIR Detect Type
- 0 = Analog
- 1 = PCM
- 2 = Not PCM
- 3 = Data
- 4 = DTS CD (Not used)
- 5 = Multich
- 6 = Not Decided

---------- DSP ----------

⑦ DSP Port
- 0 = NIC (Normal state)
- 1 = DEC (Abnormal state)
- 2 = BUSY (Abnormal state)
- 3 = EXEC WAIT (Abnormal state)

⑧ DSP Sequence
- 04 = Boot
- 11 = Restart
- FF = Free

⑨ DSP Detect Format
- P = PCM (Analog)
- D = Dolby Digital
- d = DTS
- A = AAC
- ? = Unknown

⑩ DSP Decode
- o = Decode OK
- x = Decode NG

------- Main Microprocessor --------

⑪ Mute output IC
- 0 = Selector IC(Q5501)
- 1 = ---
- 2 = DSP(Q201)
- 3 = DIR(Q301)

OPERATION CHECK-5

DEBUG MODE-2

Trouble Cause Analysis by Debug Mode

This debug mode will help in analysing digital audio no sound trouble.
Check information on FL display and the related devices or circuits.

Digit No. on FL	Symptom on Display	Cause	Check
①	"E" is displayed	No input signal to DIR	Related devices from digital input to Q301
④	Displayed freq. is different from input signal freq.	No input signal to DIR	Related devices from digital input to Q301
⑥	Displayed format is different from input signal format	No input signal to DIR	Related devices from digital input to Q301
⑧	"04" or "11" do not change to "FF"	ROM or RAM error	Q281, Q282 & related devices
⑨	Displayed format is different from input signal format	Input signal to DSP is no good	Related devices from Q301 to Q201
⑩	"x" is displayed	Interface between DSP and Microprocessor is no good	Related devices from Q701 to Q201
⑪	This identifies IC which outputs error	The IC outputs error to main microprocessor	Q5501, Q201, Q301 & related devices

ADJUSTMENT PROCEDURE-1
IDLING CURRENT ADJUSTMENT

[When]

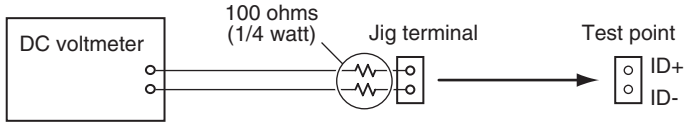
1. Exchange Power transistor (Q6050 - Q6054, Q6060 - Q6064).
2. Amplifier PC board (NAAF-8779).

[Procedure]

<Note> No load and No signal

Refer to " ADJUSTMENT PROCEDURE-2 " for the adjustment points and the test points.

1. Before idling adjustment, turn the trimming resistors fully to counter clockwise.
2. Connect the DC voltmeter to test points,
   using two 100 ohm resistors between the poles of the jig terminal and the DC voltmeter terminals.



3. Connect the AC power cord to a wall outlet.
4. Press STANDBY/ON button to turn the power on.
5. Adjust the trimming resistors as the following procedure immediately after power on.

Channel	Mark	Adjustment point (Trimming resistor)	Measuring point (Test point)	Adjustment value
Center	C	R6040	P6080	2.5 mV
Front Left	L	R6041	P6081	2.5 mV
Front Right	R	R6042	P6082	2.5 mV
Surround Left	SL	R6043	P6083	1.5 mV
Surround Right	SR	R6044	P6084	1.5 mV

6. Wait for 4 - 6 minutes. (Heat running)
7. Re-adjust the trimming resistors as the following procedure.

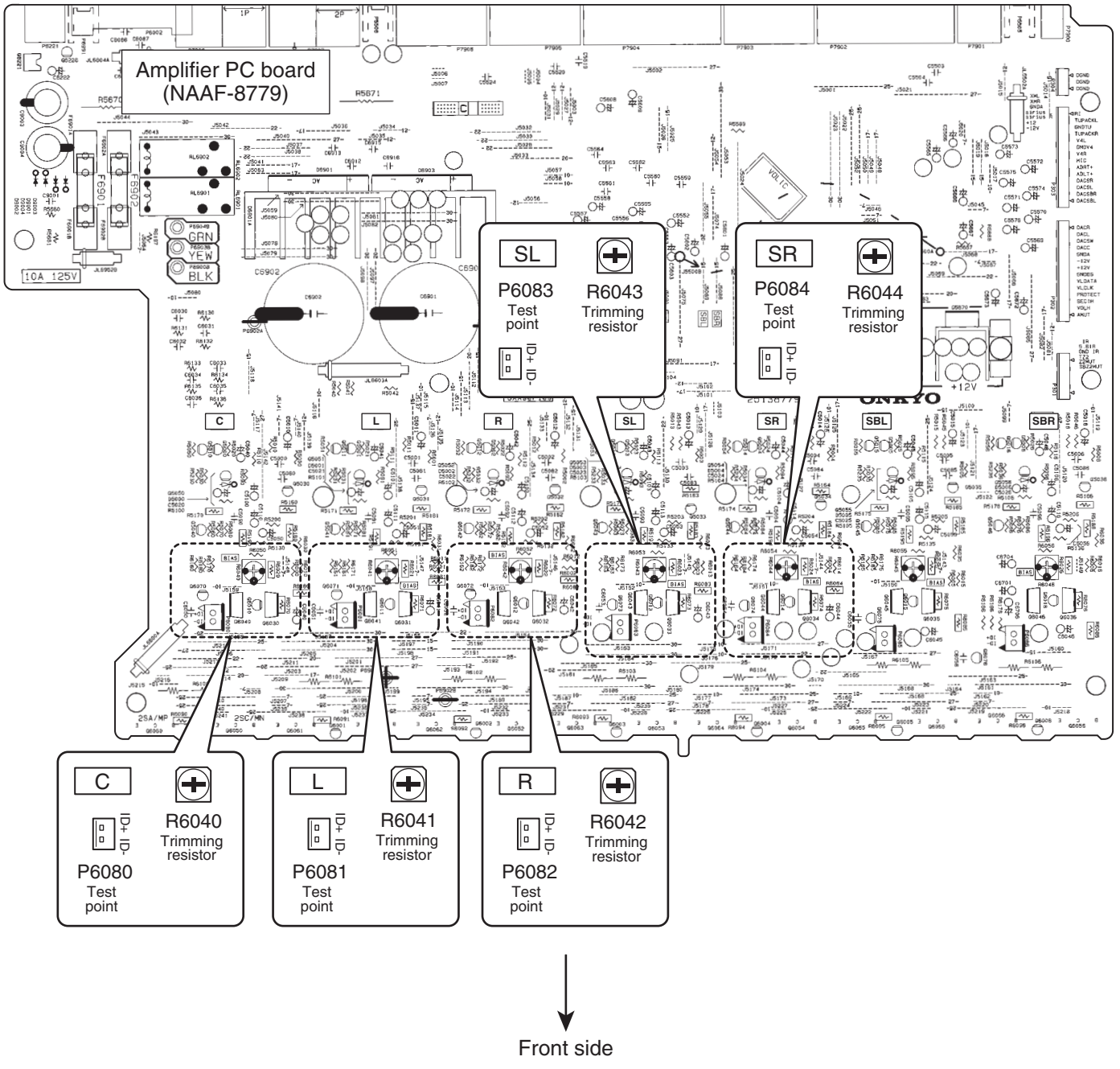
Channel	Adjustment point	Measured value → Adjustment value	Specifications (∗In a stable state)
Front Left, Front Right and Center	R6041, R6042 and R6040	In below 9 mV → 9 mV In case 9 - 11 mV → Leave it as it is In case over 11 mV → 11 mV	12 +/- 3 mV
Surround Left Surround Right	R6043, R6044	In case below 6 mV → 6 mV In case 6 - 8 mV → Leave it as it is In case over 8 mV → 8 mV	9 +/- 3 mV

∗ Idling currents are stabilized in about 10 minutes after power on.

8. Disconnect the DC voltmeter.
9. Press STANDBY/ON button to power off.
10. Disconnect the AC power cord.

ADJUSTMENT PROCEDURE-2
IDLING CURRENT ADJUSTMENT

Adjustment points and the test points.



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<Note>
Parts marked by '**NSP**' are generally unavailable because they are not in our Master Spare Parts List.

NOTE : THE COMPONENTS IDENTIFIED BY THE MARK ! ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

EXPLODED VIEW PARTS LIST

	REF. NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
EXP	A001	F BRACKET	BLACK	1	27111470B	
EXP	A002	SCREW	3TTB+8B(3CM)SR	5	801637	
EXP	A003	B PLATE	---	1	28133425	
EXP	A011	SCREW	3TTB+8B(3CM)SR	7	801637	
EXP	A012	SCREW	3TTB+8B(3CM)SR	2	801637	
EXP	A013	WIRE TIE	BSK-1	7	260208	
EXP	A016	SCREW	3TTB+8B(3CM)SR	1	801637	
EXP	A017	WIRE TIE	BINDER(CLAMPER)UL	2	260258	
EXP	A018	HOLDER	KGLS-22S	1	27190369	
EXP	A020	HOLDER	KGLS-16RT	2	27190511	
EXP	A021	HOLDER	KGPS-16RF	4	27190991	
EXP	A022	HOLDER	KGLS-10RT	1	27190428A	
EXP	A027	HOLDER	HOLDER KGLS-18S	1	27190470	
EXP	A028	CLIP	CS-1U	1	27255004	
EXP	A029	SCREW	3TTB+8B(3CM)SR	1	801637	
EXP	A030	SCREW	4TTC+8C(3BC)	4	830440089GR	
EXP	A031	SPACER	---	1	27270439	
EXP	A033	LABEL	(PT)	1	29363379-1	
EXP	A037	BUSHING	S-RELIEF #2271	1	27300750	!
EXP	A039	TAPE	TAPE(CLOTH-16U)	(1)	29110083	
EXP	A040	HEAT SINK	(AS)	1	27160602A	
EXP	A041	BRACKET	(HT-L)	1	27131016B	
EXP	A042	BRACKET	(HT-R)	1	27131017A	
EXP	A043	SCREW	3TTB+8B(3CM)SR	4	801637	
EXP	A044	SCREW	3TTB+8B(3CM)SR	4	801637	
EXP	A045	SPACER	T0.5 x 8 x 3.5	2	27270463	
EXP	A046	SCREW	3TTB+8B(3CM)SR	2	801637	
EXP	A047	SCREW	3TTB+8B(3CM)SR	2	801637	
EXP	A048	SCREW	3TTB+8B(3CM)SR	1	801637	
EXP	A049	SCREW	3SMS8W.SW+14B(CU)	10	801634	
EXP	A050	IB CUSHION	W15 x 3t TAPE	1	28141585	
EXP	A052	SCREW	3TTB+8B(3CM)SR	1	801637	
EXP	A053	CUSHION	---	4	28141637	
EXP	A055	KNOB	(VOL)AS BLACK	1	28326579	
EXP	A056	KNOB	(SETUP) BLACK	1	28326517B	
EXP	A057	SPRING	---	1	27180596	
EXP	A060	COVER	(B)	1	28184961	
EXP	A061	SCREW	3TTB+8B(3BC)	6	838430088GR	
EXP	A062	CUSHION	---	1	28141681	

EXP	A065	BOTTOM LEG	---	4	27175432B	
EXP	A066	CUSHION	---	4	28141664	
EXP	A068	SCREW	3TTB+8B(3CM)SR	4	801637	
EXP	A069	CUSHION	---	1	28141687	
EXP	A071	CUSHION	---	1	28141688	
EXP	A072	CHASSIS	TXSR505/605	1	---	NSP
EXP	A073	F PANEL	HTR557B	1	27213055B	
EXP	A075	SPACER	SPACER 8 x 3 x 0.188	2	27270147	
EXP	A077	BADGE	BADGE	1	28135244	
EXP	A083	CLEAR PLT	---	1	28192161B	
EXP	A089	SCREW	3TTB+8B(3BC)	3	838430088GR	
EXP	A093	REAR PANEL	HTR557MDD	1	27123764A	
EXP	A096	SCREW	3P+6FN(3BC)	4	82143006GR	
EXP	A097	SCREW	3TTB+8B(3BC)	34	838430088GR	
EXP	A102	LABEL	(COVER)	1	29364123	
EXP	A109	LABEL	HOOKUP-ONKYO	1	29363194	
EXP	Q6050	TR	2SC5242-O	1	2202843	!
EXP	Q6050 or	TR	2SC5242-R	(1)	2202842	!
EXP	Q6050A	ISO SHEET	AC238	2	223024	
EXP	Q6050B	ISO SHEET	ISO SHEET	4	223041	
EXP	Q6051	TR	2SC5242-O	1	2202843	!
EXP	Q6051 or	TR	2SC5242-R	(1)	2202842	!
EXP	Q6052	TR	2SC5242-O	1	2202843	!
EXP	Q6052 or	TR	2SC5242-R	(1)	2202842	!
EXP	Q6053	TR	2SC5242-O	1	2202843	!
EXP	Q6053 or	TR	2SC5242-R	(1)	2202842	!
EXP	Q6054	TR	2SC5242-O	1	2202843	!
EXP	Q6054 or	TR	2SC5242-R	(1)	2202842	!
EXP	Q6060	TR	2SA1962-O	1	2202833	!
EXP	Q6060 or	TR	2SA1962-R	(1)	2202832	!
EXP	Q6061	TR	2SA1962-O	1	2202833	!
EXP	Q6061 or	TR	2SA1962-R	(1)	2202832	!
EXP	Q6062	TR	2SA1962-O	1	2202833	!
EXP	Q6062 or	TR	2SA1962-R	(1)	2202832	!
EXP	Q6063	TR	2SA1962-O	1	2202833	!
EXP	Q6063 or	TR	2SA1962-R	(1)	2202832	!
EXP	Q6064	TR	2SA1962-O	1	2202833	!
EXP	Q6064 or	TR	2SA1962-R	(1)	2202832	!
EV	**<Note>**					
EV	Must use the same HFE rank mutually about the following parts.					
EV	Ref. No. : Q6050 - 6060, Q6051 - 6061, Q6052 -6062, Q6053 - 6063, Q6054 - 6064, Q6055 - 6055, Q6056 - 6066					
EXP	T901	P TRANS	NPT-1517D	1	2301803	!
EXP	P101	FFC	NCFC7-131012	1	2047131012	
EXP	P701	FFC	NCFC3-32026	1	204332026	
EXP	P901	AC CORD	AS-UC-2	1	253333VOL	!
EXP	P901 or	AC CORD	AS-UC-2	(1)	253368BLTK	!
EXP	P901 or	AC CORD	AS-UC-2	(1)	253368AYUN	!
EXP	P901 or	AC CORD	AS-UC-2	(1)	253368HSN	!
EXP	F901	FUSE	8A-UL/T-233	1	252329GR	!
EXP	F901 or	FUSE	8A-T/UL-ST2	(1)	252261GR	!
EXP	F6901	FUSE	10A-UL/T-233	1	252330GR	!

EXP	F6901 or	FUSE	10A-T/UL-ST2	(1)	252333GR	!
EXP	F6902	FUSE	10A-UL/T-233	1	252330GR	!
EXP	F6902 or	FUSE	10A-T/UL-ST2	(1)	252333GR	!
EXP	U01	AMPLIFIER PC board ass'y	NAAF-8779-2E	1	1B176579-2E	
EXP	U02	TRANS. SEC. TERMINAL PC board ass'y	NAPS-8780-2E	1	1B176580-2E	
EXP	U03	THERMAL SENSOR PC board ass'y	NAETC-8781-2E	1	---	NSP
EXP	U04	HOLDER PC board	NAETC-8782-2E	1	---	NSP
EXP	U05	DISPLAY PC board ass'y	NADIS-9148-1T	1	1B176548-1T	
EXP	U06	SWITCH PC board ass'y	NADIS-9149-1T	1	1B176549-1T	
EXP	U07	POWER SUPPLY PC board ass'y	NAPS-9150-1T	1	1B176550-1T	
EXP	U08	TRANS. SEC. TERMINAL PC board ass'y	NAPS-9151-1T	1	1B176551-1T	
EXP	U09	HEADPHONE JACK PC board ass'y	NAETC-9153-1T	1	---	NSP
EXP	U11	HOLDER PC board	NAETC-9159-1T	1	---	NSP
EXP	U12	DSP PC board ass'y	NADG-9177-1J	1	1B176577-1J	
EXP	U13	VIDEO & SPEAKER TERMINAL PC board ass'y	NAVD-9178-1J	1	1B176578-1J	
EXP	U14	XM DIGITAL TRANSCEIVER PC board ass'y	NADG-9179-1J	1	1B176579-1J	
EXP	U15	HDMI PC board ass'y	NAHDM-9199-1B	1	1B176599-1B	
EXP	U16	TUNER UNIT	ENG06507QFUS	1	240156	
EXP	U16 or	TUNER UNIT	FAE385-A11US	(1)	240152	

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PC BOARD PARTS LIST

PCB1 **U01** AMPLIFIER PC BOARD (NAAF-8779-2E)
PCB1 **U02** TRANS. SEC. TERMINAL PC BOARD (NAPS-8780-2E)
PCB1 **U03** THERMAL SENSOR PC BOARD (NAETC-8781-2E)
PCB1

	CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
PCB1	Q5000	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5001	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5002	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5003	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5004	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5010	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5011	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5012	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5013	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5014	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5030	TR	2SA949-Y(TPE6_F)	1	2211354T	
PCB1	Q5031	TR	2SA949-Y(TPE6_F)	1	2211354T	
PCB1	Q5032	TR	2SA949-Y(TPE6_F)	1	2211354T	
PCB1	Q5033	TR	2SA949-Y(TPE6_F)	1	2211354T	
PCB1	Q5034	TR	2SA949-Y(TPE6_F)	1	2211354T	
PCB1	Q5040	TR	2SC2229-Y(TPE6_F)	1	2211634T	
PCB1	Q5041	TR	2SC2229-Y(TPE6_F)	1	2211634T	
PCB1	Q5042	TR	2SC2229-Y(TPE6_F)	1	2211634T	
PCB1	Q5043	TR	2SC2229-Y(TPE6_F)	1	2211634T	
PCB1	Q5044	TR	2SC2229-Y(TPE6_F)	1	2211634T	
PCB1	Q5050	TR	2SC2240-BL(TPE2_F)	1	2211406T	
PCB1	Q5050 or	TR	2SC2240-GR	(1)	2211405T	
PCB1	Q5051	TR	2SC2240-BL(TPE2_F)	1	2211406T	

PCB1	Q5051 or	TR	2SC2240-GR	(1)	2211405T
PCB1	Q5052	TR	2SC2240-BL(TPE2_F)	1	2211406T
PCB1	Q5052 or	TR	2SC2240-GR	(1)	2211405T
PCB1	Q5053	TR	2SC2240-BL(TPE2_F)	1	2211406T
PCB1	Q5053 or	TR	2SC2240-GR	(1)	2211405T
PCB1	Q5054	TR	2SC2240-BL(TPE2_F)	1	2211406T
PCB1	Q5054 or	TR	2SC2240-GR	(1)	2211405T
PCB1	Q5501	IC	R2S15211FP	1	22242297R3
PCB1	Q5503	IC	NJM4580M-D	1	22241448R2
PCB1	Q5600	TR	RN1441	1	2215410R2
PCB1	Q5603	TR	RN1441	1	2215410R2
PCB1	Q5604	TR	RN1441	1	2215410R2
PCB1	Q5605	TR	RN1441	1	2215410R2
PCB1	Q5606	TR	RN1441	1	2215410R2
PCB1	Q5607	TR	RN1441	1	2215410R2
PCB1	Q5610	TR	RN1441	1	2215410R2
PCB1	Q5630	IC	NJM4580M-D	1	22241448R2
PCB1	Q5670	IC	78M12HF(NJM78M12FA)	1	222780125JRC
PCB1	Q5670 or	IC	MPC78M12AHF-AZ	(1)	222780125NEC
PCB1	Q5670 or	IC	78M12(AN78M12F)	(1)	222780125MAT
PCB1	Q5670A	HEAT-SINK	HEAT-SINK(RAD-68)	1	27160211
PCB1	Q5670B	SCREW	3P+10FN(3BC)	1	82143010GR
PCB1	Q5671	IC	79M12HF(NJM79M12FA)	1	222790125JRC
PCB1	Q5671 or	IC	79M12HF(MPC79M12HF)	(1)	222790125NEC
PCB1	Q5671 or	IC	79M12F(AN79M12F)	(1)	222790125MAT
PCB1	Q5671A	HEAT-SINK	HEAT-SINK(RAD-68)	1	27160211
PCB1	Q5671B	SCREW	3P+10FN(3BC)	1	82143010GR
PCB1	Q6000	TR	2SC1740S-S	1	2213285T
PCB1	Q6001	TR	2SC1740S-S	1	2213285T
PCB1	Q6002	TR	2SC1740S-S	1	2213285T
PCB1	Q6003	TR	2SC1740S-S	1	2213285T
PCB1	Q6004	TR	2SC1740S-S	1	2213285T
PCB1	Q6010	TR	2SC1740S-S	1	2213285T
PCB1	Q6011	TR	2SC1740S-S	1	2213285T
PCB1	Q6012	TR	2SC1740S-S	1	2213285T
PCB1	Q6013	TR	2SC1740S-S	1	2213285T
PCB1	Q6014	TR	2SC1740S-S	1	2213285T
PCB1	Q6030	TR	2SC5171(ONK_Q)	1	2203010
PCB1	Q6030 or	TR	2SC5993-Q_P	(1)	2217161
PCB1	Q6031	TR	2SC5171(ONK_Q)	1	2203010
PCB1	Q6031 or	TR	2SC5993-Q_P	(1)	2217161
PCB1	Q6032	TR	2SC5171(ONK_Q)	1	2203010
PCB1	Q6032 or	TR	2SC5993-Q_P	(1)	2217161
PCB1	Q6033	TR	2SC5171(ONK_Q)	1	2203010
PCB1	Q6033 or	TR	KTD2061-Y	(1)	2203434
PCB1	Q6034	TR	2SC5171(ONK_Q)	1	2203010
PCB1	Q6034 or	TR	KTD2061-Y	(1)	2203434
PCB1	Q6040	TR	2SA1930(ONK_Q)	1	2203000
PCB1	Q6040 or	TR	2SA2140-Q_P	(1)	2217151
PCB1	Q6041	TR	2SA1930(ONK_Q)	1	2203000
PCB1	Q6041 or	TR	2SA2140-Q_P	(1)	2217151

PCB1	Q6042	TR	2SA1930(ONK_Q)	1	2203000
PCB1	Q6042 or	TR	2SA2140-Q_P	(1)	2217151
PCB1	Q6043	TR	2SA1930(ONK_Q)	1	2203000
PCB1	Q6043 or	TR	KTB1369-Y	(1)	2203424
PCB1	Q6044	TR	2SA1930(ONK_Q)	1	2203000
PCB1	Q6044 or	TR	KTB1369-Y	(1)	2203424
PCB1	Q6070	TR	2SC2240-BL(TPE2_F)	1	2211406T
PCB1	Q6070 or	TR	2SC2240-GR	(1)	2211405T
PCB1	Q6071	TR	2SC2240-BL(TPE2_F)	1	2211406T
PCB1	Q6071 or	TR	2SC2240-GR	(1)	2211405T
PCB1	Q6072	TR	2SC2240-BL(TPE2_F)	1	2211406T
PCB1	Q6072 or	TR	2SC2240-GR	(1)	2211405T
PCB1	Q6073	TR	2SC2240-BL(TPE2_F)	1	2211406T
PCB1	Q6073 or	TR	2SC2240-GR	(1)	2211405T
PCB1	Q6074	TR	2SC2240-BL(TPE2_F)	1	2211406T
PCB1	Q6074 or	TR	2SC2240-GR	(1)	2211405T
PCB1	Q6380	IC	LM61CIZ	1	22242212
PCB1	Q6380A	RETAINER	(PTH)	1	27141884-1
PCB1	Q6701	TR	2SC2712-GR	1	2213145R2
PCB1	Q6701 or	TR	KTC3875-GR	(1)	2216175R2
PCB1	Q6702	TR	2SC2712-GR	1	2213145R2
PCB1	Q6702 or	TR	KTC3875-GR	(1)	2216175R2
PCB1	Q6703	TR	2SA1163-BL(TE85L_F)	1	2216756R2
PCB1	Q6707	TR	2SC2712-GR	1	2213145R2
PCB1	Q6707 or	TR	KTC3875-GR	(1)	2216175R2
PCB1	D5000	ZENER D	MTZJ5.6B	1	224470562T
PCB1	D5001	ZENER D	MTZJ5.6B	1	224470562T
PCB1	D5002	ZENER D	MTZJ5.6B	1	224470562T
PCB1	D5003	ZENER D	MTZJ5.6B	1	224470562T
PCB1	D5004	ZENER D	MTZJ5.6B	1	224470562T
PCB1	D5671	ZENER D	MTZJ6.2C	1	224470623T
PCB1	D5672	ZENER D	MTZJ6.2C	1	224470623T
PCB1	D5673	DIODE	1SS133	1	223163T
PCB1	D5674	DIODE	1SS133	1	223163T
PCB1	D5704	C-DIODE	1SS352	1	223234R2
PCB1	D5704 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D5704 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D5705	C-DIODE	1SS352	1	223234R2
PCB1	D5705 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D5705 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D5708	C-DIODE	1SS352	1	223234R2
PCB1	D5708 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D5708 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D5714	C-DIODE	1SS352	1	223234R2
PCB1	D5714 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D5714 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D5715	C-DIODE	1SS352	1	223234R2
PCB1	D5715 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D5715 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D5718	C-DIODE	1SS352	1	223234R2
PCB1	D5718 or	C-DIODE	KDS4148U	(1)	223283R2

PCB1	D5718 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6000	C-DIODE	1SS352	1	223234R2
PCB1	D6000 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6000 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6001	C-DIODE	1SS352	1	223234R2
PCB1	D6001 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6001 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6002	C-DIODE	1SS352	1	223234R2
PCB1	D6002 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6002 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6003	C-DIODE	1SS352	1	223234R2
PCB1	D6003 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6003 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6004	C-DIODE	1SS352	1	223234R2
PCB1	D6004 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6004 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6010	C-DIODE	1SS352	1	223234R2
PCB1	D6010 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6010 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6011	C-DIODE	1SS352	1	223234R2
PCB1	D6011 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6011 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6012	C-DIODE	1SS352	1	223234R2
PCB1	D6012 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6012 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6013	C-DIODE	1SS352	1	223234R2
PCB1	D6013 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6013 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6014	C-DIODE	1SS352	1	223234R2
PCB1	D6014 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6014 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6701	C-DIODE	1SS352	1	223234R2
PCB1	D6701 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6701 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6702	C-DIODE	1SS352	1	223234R2
PCB1	D6702 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6702 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6703	ZENER D	UDZS5.1B	1	224550510R2
PCB1	D6704	ZENER D	UDZS5.1B	1	224550510R2
PCB1	D6901	DIODE	D10XB60H	1	22380337
PCB1	D6901A	HEAT SINK	RAD-196	1	27160545
PCB1	D6901C	SCREW	3P+10FN(3BC)	2	82143010GR
PCB1	D6902	C-DIODE	1SS352	1	223234R2
PCB1	D6902 or	C-DIODE	KDS4148U	(1)	223283R2
PCB1	D6902 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D6903	DIODE	D10XB60H	1	22380337
PCB1	D9001	DIODE	RL1N4003	1	22380260T
PCB1	D9001 or	DIODE	GP104003E	(1)	22380035T
PCB1	D9002	DIODE	RL1N4003	1	22380260T
PCB1	D9002 or	DIODE	GP104003E	(1)	22380035T
PCB1	D9003	DIODE	RL1N4003	1	22380260T

PCB1	D9003 or	DIODE	GP104003E	(1)	22380035T
PCB1	D9004	DIODE	RL1N4003	1	22380260T
PCB1	D9004 or	DIODE	GP104003E	(1)	22380035T
PCB1	C5000	TF C	ECQ-B50V-221K	1	3747222l5T
PCB1	C5001	TF C	ECQ-B50V-221K	1	3747222l5T
PCB1	C5002	TF C	ECQ-B50V-221K	1	3747222l5T
PCB1	C5003	TF C	ECQ-B50V-221K	1	3747222l5T
PCB1	C5004	TF C	ECQ-B50V-221K	1	3747222l5T
PCB1	C5010	UTSP C	CE04W50V 47M(UTSP)	1	3975847O7T
PCB1	C5011	UTSP C	CE04W50V 47M(UTSP)	1	3975847O7T
PCB1	C5012	UTSP C	CE04W50V 47M(UTSP)	1	3975847O7T
PCB1	C5013	UTSP C	CE04W50V 47M(UTSP)	1	3975847O7T
PCB1	C5014	UTSP C	CE04W50V 47M(UTSP)	1	3975847O7T
PCB1	C5020	UTSP C	CE04W50V-10M(UTSP)	1	3975810O7T
PCB1	C5021	UTSP C	CE04W50V-10M(UTSP)	1	3975810O7T
PCB1	C5022	UTSP C	CE04W50V-10M(UTSP)	1	3975810O7T
PCB1	C5023	UTSP C	CE04W50V-10M(UTSP)	1	3975810O7T
PCB1	C5024	UTSP C	CE04W50V-10M(UTSP)	1	3975810O7T
PCB1	C5040	UTSP C	CE04W25V-220M(UTSP)	1	3975522l7T
PCB1	C5041	UTSP C	CE04W25V-220M(UTSP)	1	3975522l7T
PCB1	C5042	UTSP C	CE04W25V-220M(UTSP)	1	3975522l7T
PCB1	C5043	UTSP C	CE04W25V-220M(UTSP)	1	3975522l7T
PCB1	C5044	UTSP C	CE04W25V-220M(UTSP)	1	3975522l7T
PCB1	C5050	UTSP C	CE04W50V 47M(UTSP)	1	3975847O7T
PCB1	C5051	UTSP C	CE04W50V 47M(UTSP)	1	3975847O7T
PCB1	C5052	UTSP C	CE04W50V 47M(UTSP)	1	3975847O7T
PCB1	C5053	UTSP C	CE04W50V 47M(UTSP)	1	3975847O7T
PCB1	C5054	UTSP C	CE04W50V 47M(UTSP)	1	3975847O7T
PCB1	C5080	CERA C	CC45SL50V-040D	1	3450204O2T
PCB1	C5081	CERA C	CC45SL50V-040D	1	3450204O2T
PCB1	C5082	CERA C	CC45SL50V-040D	1	3450204O2T
PCB1	C5083	CERA C	CC45SL50V-040D	1	3450204O2T
PCB1	C5084	CERA C	CC45SL50V-040D	1	3450204O2T
PCB1	C5090	TF C	ECQ-B50V-101K	1	3747210l5T
PCB1	C5091	TF C	ECQ-B50V-101K	1	3747210l5T
PCB1	C5092	TF C	ECQ-B50V-101K	1	3747210l5T
PCB1	C5093	TF C	ECQ-B50V-101K	1	3747210l5T
PCB1	C5094	TF C	ECQ-B50V-101K	1	3747210l5T
PCB1	C5100	VR C	CE04W100V-22M(VR)	1	3946922O7T
PCB1	C5101	VR C	CE04W100V-22M(VR)	1	3946922O7T
PCB1	C5102	VR C	CE04W100V-22M(VR)	1	3946922O7T
PCB1	C5103	VR C	CE04W100V-22M(VR)	1	3946922O7T
PCB1	C5104	VR C	CE04W100V-22M(VR)	1	3946922O7T
PCB1	C5110	VR C	CE04W100V-22M(VR)	1	3946922O7T
PCB1	C5111	VR C	CE04W100V-22M(VR)	1	3946922O7T
PCB1	C5112	VR C	CE04W100V-22M(VR)	1	3946922O7T
PCB1	C5113	VR C	CE04W100V-22M(VR)	1	3946922O7T
PCB1	C5114	VR C	CE04W100V-22M(VR)	1	3946922O7T
PCB1	C5503	TF C	ECQ-B50V-221K	1	3747222l5T
PCB1	C5504	TF C	ECQ-B50V-221K	1	3747222l5T
PCB1	C5507	C-CERA C	CC725CH1H-221J1	1	342102214R1

PCB1	C5508	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5513	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5514	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5517	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5518	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5519	TF C	ECQ-B50V-221K	1	374722215T	
PCB1	C5520	TF C	ECQ-B50V-221K	1	374722215T	
PCB1	C5521	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5522	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5523	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5524	TF C	ECQ-B50V-221K	1	374722215T	
PCB1	C5553	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB1	C5554	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB1	C5555	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB1	C5556	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB1	C5557	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB1	C5558	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB1	C5559	TF C	ECQ-V50V-474J	1	374724744T	
PCB1	C5560	TF C	ECQ-V50V-823J	1	374728234T	
PCB1	C5561	TF C	ECQ-B50V-223J	1	374722234T	
PCB1	C5562	TF C	ECQ-V50V-474J	1	374724744T	
PCB1	C5563	TF C	ECQ-V50V-823J	1	374728234T	
PCB1	C5564	TF C	ECQ-B50V-223J	1	374722234T	
PCB1	C5565	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB1	C5566	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB1	C5569	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5570	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5571	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5572	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5573	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5574	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5575	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5576	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5590	C-CERA C	CC725CH1H-330J1	1	342103304R1	
PCB1	C5591	C-CERA C	CC725CH1H-330J1	1	342103304R1	
PCB1	C5600	UTSP C	CE04W25V-100M(UTSP)	1	397551017T	
PCB1	C5603	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5604	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5605	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5606	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5607	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5630	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C5631	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5632	TF C	ECQ-B50V-103J	1	374721034T	
PCB1	C5666	UTSP C	CE04W25V-220M(UTSP)	1	397552217T	
PCB1	C5667	UTSP C	CE04W25V-220M(UTSP)	1	397552217T	
PCB1	C5670	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB1	C5671	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB1	C5672	UTSP C	CE04W25V-220M(UTSP)	1	397552217T	
PCB1	C5673	UTSP C	CE04W25V-220M(UTSP)	1	397552217T	
PCB1	C5674	UTSP C	CE04W16V-470M(UTSP)	1	397544717T	

PCB1	C5675	UTSP C	CE04W16V-470M(UTSP)	1	3975447 17T	
PCB1	C5704	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5705	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB1	C5708	C-CERA C	CK725B1H-222K1	1	332102225R1	
PCB1	C6030	TF C	ECQ-V50V-473J	1	374724734T	
PCB1	C6031	TF C	ECQ-V50V-473J	1	374724734T	
PCB1	C6032	TF C	ECQ-V50V-473J	1	374724734T	
PCB1	C6033	TF C	ECQ-V50V-473J	1	374724734T	
PCB1	C6034	TF C	ECQ-V50V-473J	1	374724734T	
PCB1	C6040	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C6041	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C6042	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C6043	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C6044	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB1	C6050	TF C	ECQ-B50V-103J	1	374721034T	
PCB1	C6051	TF C	ECQ-B50V-103J	1	374721034T	
PCB1	C6052	TF C	ECQ-B50V-103J	1	374721034T	
PCB1	C6053	TF C	ECQ-B50V-103J	1	374721034T	
PCB1	C6054	TF C	ECQ-B50V-103J	1	374721034T	
PCB1	C6701	UTSP C	CE04W25V-100M(UTSP)	1	397551017T	
PCB1	C6703	C-CERA C	CK725F1H-104Z1	1	332151040R1	
PCB1	C6704	UTSP C	CE04W50V-1M(UTSP)	1	397580107T	
PCB1	C6706	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB1	C6901	ELECT C	CE69W69V-10000MA	1	3504425	
PCB1	C6901A	IB CUSHION	W15 x 3t TAPE	1	28141585	
PCB1	C6902	ELECT C	CE69W69V-10000MA	1	3504425	
PCB1	C6902A	IB CUSHION	W15 x 3t TAPE	1	28141585	
PCB1	C6911	C-CERA C	CC725CH1H-102J1	1	342101024R1	
PCB1	C6912	TF C	ECQ-V50V-334J	1	374723344T	
PCB1	C6913	TF C	ECQ-V50V-334J	1	374723344T	
PCB1	C6915	TF C	ECQ-V50V-104J	1	374721044T	
PCB1	C6916	TF C	ECQ-V50V-104J	1	374721044T	
PCB1	C9001	MMT C	MMT50V-334J	1	375523344T	
PCB1	C9003	VR C	CE04W35V-1000M(VR)	1	394661027S	
PCB1	C9004	VR C	CE04W35V-1000M(VR)	1	394661027S	
PCB1	R5000	CARBON R	R16J-1K	1	417341024T	
PCB1	R5001	CARBON R	R16J-1K	1	417341024T	
PCB1	R5002	CARBON R	R16J-1K	1	417341024T	
PCB1	R5003	CARBON R	R16J-1K	1	417341024T	
PCB1	R5004	CARBON R	R16J-1K	1	417341024T	
PCB1	R5010	CARBON R	R16J-56K	1	417345634T	
PCB1	R5011	CARBON R	R16J-56K	1	417345634T	
PCB1	R5012	CARBON R	R16J-56K	1	417345634T	
PCB1	R5013	CARBON R	R16J-56K	1	417345634T	
PCB1	R5014	CARBON R	R16J-56K	1	417345634T	
PCB1	R5020	CARBON R	R16J-330	1	417343314T	
PCB1	R5021	CARBON R	R16J-330	1	417343314T	
PCB1	R5022	CARBON R	R16J-330	1	417343314T	
PCB1	R5023	CARBON R	R16J-330	1	417343314T	
PCB1	R5024	CARBON R	R16J-330	1	417343314T	
PCB1	R5030	CARBON R	R16J-120K	1	417341244T	

PCB1	R5031	CARBON R	R16J-120K	1	4173412447	
PCB1	R5032	CARBON R	R16J-120K	1	4173412447	
PCB1	R5033	CARBON R	R16J-120K	1	4173412447	
PCB1	R5034	CARBON R	R16J-120K	1	4173412447	
PCB1	R5040	CARBON R	R16J-2.2K	1	4173422247	
PCB1	R5041	CARBON R	R16J-2.2K	1	4173422247	
PCB1	R5042	CARBON R	R16J-2.2K	1	4173422247	
PCB1	R5043	CARBON R	R16J-2.2K	1	4173422247	
PCB1	R5044	CARBON R	R16J-2.2K	1	4173422247	
PCB1	R5050	CARBON R	R16J-4.7K	1	4173447247	
PCB1	R5051	CARBON R	R16J-4.7K	1	4173447247	
PCB1	R5052	CARBON R	R16J-4.7K	1	4173447247	
PCB1	R5053	CARBON R	R16J-4.7K	1	4173447247	
PCB1	R5054	CARBON R	R16J-4.7K	1	4173447247	
PCB1	R5060	CARBON R	R16J-1.2K	1	4173412247	
PCB1	R5061	CARBON R	R16J-1.2K	1	4173412247	
PCB1	R5062	CARBON R	R16J-1.2K	1	4173412247	
PCB1	R5063	CARBON R	R16J-1.2K	1	4173412247	
PCB1	R5064	CARBON R	R16J-1.2K	1	4173412247	
PCB1	R5080	CARBON R	R16J-470	1	4173447147	
PCB1	R5081	CARBON R	R16J-470	1	4173447147	
PCB1	R5082	CARBON R	R16J-470	1	4173447147	
PCB1	R5083	CARBON R	R16J-470	1	4173447147	
PCB1	R5084	CARBON R	R16J-470	1	4173447147	
PCB1	R5090	CARBON R	R16J-100K	1	4173410447	
PCB1	R5091	CARBON R	R16J-100K	1	4173410447	
PCB1	R5092	CARBON R	R16J-100K	1	4173410447	
PCB1	R5093	CARBON R	R16J-100K	1	4173410447	
PCB1	R5094	CARBON R	R16J-100K	1	4173410447	
PCB1	R5100	CARBON R	R16J-100K	1	4173410447	
PCB1	R5101	CARBON R	R16J-100K	1	4173410447	
PCB1	R5102	CARBON R	R16J-100K	1	4173410447	
PCB1	R5103	CARBON R	R16J-100K	1	4173410447	
PCB1	R5104	CARBON R	R16J-100K	1	4173410447	
PCB1	R5110	CARBON R	R16J-1K	1	4173410247	
PCB1	R5111	CARBON R	R16J-1K	1	4173410247	
PCB1	R5112	CARBON R	R16J-1K	1	4173410247	
PCB1	R5113	CARBON R	R16J-1K	1	4173410247	
PCB1	R5114	CARBON R	R16J-1K	1	4173410247	
PCB1	R5130	CARBON R	R16J-22K	1	4173422347	
PCB1	R5131	CARBON R	R16J-22K	1	4173422347	
PCB1	R5132	CARBON R	R16J-22K	1	4173422347	
PCB1	R5133	CARBON R	R16J-22K	1	4173422347	
PCB1	R5134	CARBON R	R16J-22K	1	4173422347	
PCB1	R5160	NF CARBON R	R25J-150	1	4154715147	
PCB1	R5161	NF CARBON R	R25J-150	1	4154715147	
PCB1	R5162	NF CARBON R	R25J-150	1	4154715147	
PCB1	R5163	NF CARBON R	R25J-150	1	4154715147	
PCB1	R5164	NF CARBON R	R25J-150	1	4154715147	
PCB1	R5170	NF CARBON R	R25J-150	1	4154715147	
PCB1	R5171	NF CARBON R	R25J-150	1	4154715147	

PCB1	R5172	NF CARBON R	R25J-150	1	415471514T	
PCB1	R5173	NF CARBON R	R25J-150	1	415471514T	
PCB1	R5174	NF CARBON R	R25J-150	1	415471514T	
PCB1	R5180	NF CARBON R	R25J-10	1	415471004T	
PCB1	R5181	NF CARBON R	R25J-10	1	415471004T	
PCB1	R5182	NF CARBON R	R25J-10	1	415471004T	
PCB1	R5183	NF CARBON R	R25J-10	1	415471004T	
PCB1	R5184	NF CARBON R	R25J-10	1	415471004T	
PCB1	R5190	NF CARBON R	R25J-10	1	415471004T	
PCB1	R5191	NF CARBON R	R25J-10	1	415471004T	
PCB1	R5192	NF CARBON R	R25J-10	1	415471004T	
PCB1	R5193	NF CARBON R	R25J-10	1	415471004T	
PCB1	R5194	NF CARBON R	R25J-10	1	415471004T	
PCB1	R5200	CARBON R	R16J-22K	1	417342234T	
PCB1	R5201	CARBON R	R16J-22K	1	417342234T	
PCB1	R5202	CARBON R	R16J-22K	1	417342234T	
PCB1	R5203	CARBON R	R16J-22K	1	417342234T	
PCB1	R5204	CARBON R	R16J-22K	1	417342234T	
PCB1	R5230	CARBON R	R16J-120K	1	417341244T	
PCB1	R5231	CARBON R	R16J-120K	1	417341244T	
PCB1	R5232	CARBON R	R16J-120K	1	417341244T	
PCB1	R5233	CARBON R	R16J-120K	1	417341244T	
PCB1	R5234	CARBON R	R16J-120K	1	417341244T	
PCB1	R5500	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5503	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5504	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5505	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R5506	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R5507	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5508	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5513	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5514	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5515	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R5516	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R5517	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5518	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5519	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5520	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5521	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5522	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5523	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5524	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R5531	C-CARBON R	RN72K1J-101JE	1	435031014R1	
PCB1	R5541	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5542	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5543	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5544	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5545	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5546	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5547	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5548	C-CARBON R	RN72K1J-224JE	1	435032244R1	

PCB1	R5553	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5554	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5555	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5556	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5557	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5558	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5559	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5560	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5561	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5562	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5563	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5564	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5575	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5576	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5577	C-CARBON R	RN72K1J-473JE	1	435034734R1	
PCB1	R5578	C-CARBON R	RN72K1J-473JE	1	435034734R1	
PCB1	R5579	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5580	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5581	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5582	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5583	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5585	C-CARBON R	RN72K1J-182JE	1	435031824R1	
PCB1	R5586	C-CARBON R	RN72K1J-182JE	1	435031824R1	
PCB1	R5587	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R5588	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R5589	CARBON R	R16J-1K	1	417341024T	
PCB1	R5590	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R5591	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R5592	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB1	R5593	C-CARBON R	RN72K1J-122JE	1	435031224R1	
PCB1	R5594	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R5595	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R5596	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB1	R5597	C-CARBON R	RN72K1J-122JE	1	435031224R1	
PCB1	R5598	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R5599	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R5600	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5603	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5604	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5605	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5606	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5607	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5610	C-CARBON R	RN72K1J-271JE	1	435032714R1	
PCB1	R5613	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R5614	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R5615	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R5616	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R5617	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R5620	C-CARBON R	RN72K1J-101JE	1	435031014R1	
PCB1	R5623	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB1	R5624	C-CARBON R	RN72K1J-000JE	1	435030004R1	

PCB1	R5625	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB1	R5626	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB1	R5627	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB1	R5630	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R5631	C-CARBON R	RN72K1J-473JE	1	435034734R1	
PCB1	R5632	C-CARBON R	RN72K1J-153JE	1	435031534R1	
PCB1	R5633	C-CARBON R	RN72K1J-122JE	1	435031224R1	
PCB1	R5634	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R5660	METAL R	RNU1WCJ-2.2	1	453630224T	
PCB1	R5661	METAL R	RNU1WCJ-2.2	1	453630224T	
PCB1	R5666	CARBON R	R16J-22	1	417342204T	
PCB1	R5667	CARBON R	R16J-22	1	417342204T	
PCB1	R5670	METAL O R	RS2WBJ-47	1	441724704F	
PCB1	R5671	METAL O R	RS2WBJ-68	1	441726804F	
PCB1	R5672	METAL O R	RS2WBJ-47	1	441724704F	
PCB1	R5673	METAL O R	RS2WBJ-68	1	441726804F	
PCB1	R5674	METAL O R	RS1WBJ-82	1	443628204T	
PCB1	R5675	METAL O R	RS1WBJ-82	1	443628204T	
PCB1	R5677	METAL O R	RS2WBJ-15	1	441721504F	
PCB1	R5678	METAL O R	RS2WBJ-15	1	441721504F	
PCB1	R5681	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R5820	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB1	R5822	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB1	R5823	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB1	R6000	CARBON R	R16J-5.6K	1	417345624T	
PCB1	R6001	CARBON R	R16J-5.6K	1	417345624T	
PCB1	R6002	CARBON R	R16J-5.6K	1	417345624T	
PCB1	R6003	CARBON R	R16J-5.6K	1	417345624T	
PCB1	R6004	CARBON R	R16J-5.6K	1	417345624T	
PCB1	R6010	CARBON R	R16J-3.9K	1	417343924T	
PCB1	R6011	CARBON R	R16J-3.9K	1	417343924T	
PCB1	R6012	CARBON R	R16J-3.9K	1	417343924T	
PCB1	R6013	CARBON R	R16J-3.9K	1	417343924T	
PCB1	R6014	CARBON R	R16J-3.9K	1	417343924T	
PCB1	R6020	NF CARBON R	R25J-2.2	1	415470224T	
PCB1	R6021	NF CARBON R	R25J-2.2	1	415470224T	
PCB1	R6022	NF CARBON R	R25J-2.2	1	415470224T	
PCB1	R6023	NF CARBON R	R25J-2.2	1	415470224T	
PCB1	R6024	NF CARBON R	R25J-2.2	1	415470224T	
PCB1	R6030	CARBON R	R16J-470	1	417344714T	
PCB1	R6031	CARBON R	R16J-470	1	417344714T	
PCB1	R6032	CARBON R	R16J-470	1	417344714T	
PCB1	R6033	CARBON R	R16J-470	1	417344714T	
PCB1	R6034	CARBON R	R16J-470	1	417344714T	
PCB1	R6040	TRIM R	N06HR2KBC	1	5210390T	
PCB1	R6041	TRIM R	N06HR2KBC	1	5210390T	
PCB1	R6042	TRIM R	N06HR2KBC	1	5210390T	
PCB1	R6043	TRIM R	N06HR2KBC	1	5210390T	
PCB1	R6044	TRIM R	N06HR2KBC	1	5210390T	
PCB1	R6050	CARBON R	R16J-3.3K	1	417343324T	
PCB1	R6051	CARBON R	R16J-3.3K	1	417343324T	

PCB1	R6052	CARBON R	R16J-3.3K	1	417343324T	
PCB1	R6053	CARBON R	R16J-3.3K	1	417343324T	
PCB1	R6054	CARBON R	R16J-3.3K	1	417343324T	
PCB1	R6070	NF CARBON R	R25J-120	1	415471214T	
PCB1	R6071	NF CARBON R	R25J-120	1	415471214T	
PCB1	R6072	NF CARBON R	R25J-120	1	415471214T	
PCB1	R6073	NF CARBON R	R25J-120	1	415471214T	
PCB1	R6074	NF CARBON R	R25J-120	1	415471214T	
PCB1	R6080	NF CARBON R	R25J-0.22	1	4154722947	
PCB1	R6081	NF CARBON R	R25J-0.22	1	4154722947	
PCB1	R6082	NF CARBON R	R25J-0.22	1	4154722947	
PCB1	R6083	NF CARBON R	R25J-0.22	1	4154722947	
PCB1	R6084	NF CARBON R	R25J-0.22	1	4154722947	
PCB1	R6090	NF CARBON R	R25J-0.22	1	4154722947	
PCB1	R6091	NF CARBON R	R25J-0.22	1	4154722947	
PCB1	R6092	NF CARBON R	R25J-0.22	1	4154722947	
PCB1	R6093	NF CARBON R	R25J-0.22	1	4154722947	
PCB1	R6094	NF CARBON R	R25J-0.22	1	4154722947	
PCB1	R6100	METAL PR	MPR2W+2W 0R22	1	4000234	
PCB1	R6100 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131	
PCB1	R6100 or	METAL PR	MPC708-2WK-0.22	(1)	4500027	
PCB1	R6101	METAL PR	MPR2W+2W 0R22	1	4000234	
PCB1	R6101 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131	
PCB1	R6101 or	METAL PR	MPC708-2WK-0.22	(1)	4500027	
PCB1	R6102	METAL PR	MPR2W+2W 0R22	1	4000234	
PCB1	R6102 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131	
PCB1	R6102 or	METAL PR	MPC708-2WK-0.22	(1)	4500027	
PCB1	R6103	METAL PR	MPR2W+2W 0R22	1	4000234	
PCB1	R6103 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131	
PCB1	R6103 or	METAL PR	MPC708-2WK-0.22	(1)	4500027	
PCB1	R6104	METAL PR	MPR2W+2W 0R22	1	4000234	
PCB1	R6104 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131	
PCB1	R6104 or	METAL PR	MPC708-2WK-0.22	(1)	4500027	
PCB1	R6130	METAL R	RNU1WCJ-8.2	1	453630824T	
PCB1	R6131	METAL R	RNU1WCJ-8.2	1	453630824T	
PCB1	R6132	METAL R	RNU1WCJ-8.2	1	453630824T	
PCB1	R6133	METAL R	RNU1WCJ-8.2	1	453630824T	
PCB1	R6134	METAL R	RNU1WCJ-8.2	1	453630824T	
PCB1	R6140	C-CARBON R	RN72K1J-223JE	1	435032234R1	
PCB1	R6141	C-CARBON R	RN72K1J-223JE	1	435032234R1	
PCB1	R6142	C-CARBON R	RN72K1J-223JE	1	435032234R1	
PCB1	R6143	C-CARBON R	RN72K1J-223JE	1	435032234R1	
PCB1	R6144	C-CARBON R	RN72K1J-223JE	1	435032234R1	
PCB1	R6150	C-CARBON R	RN72K1J-123JE	1	435031234R1	
PCB1	R6151	C-CARBON R	RN72K1J-123JE	1	435031234R1	
PCB1	R6152	C-CARBON R	RN72K1J-123JE	1	435031234R1	
PCB1	R6153	C-CARBON R	RN72K1J-123JE	1	435031234R1	
PCB1	R6154	C-CARBON R	RN72K1J-123JE	1	435031234R1	
PCB1	R6160	CARBON R	R16J-33K	1	417343334T	
PCB1	R6161	CARBON R	R16J-33K	1	417343334T	
PCB1	R6162	CARBON R	R16J-33K	1	417343334T	

PCB1	R6163	CARBON R	R16J-33K	1	417343334T	
PCB1	R6164	CARBON R	R16J-33K	1	417343334T	
PCB1	R6170	CARBON R	R16J-47K	1	417344734T	
PCB1	R6171	CARBON R	R16J-47K	1	417344734T	
PCB1	R6172	CARBON R	R16J-47K	1	417344734T	
PCB1	R6173	CARBON R	R16J-47K	1	417344734T	
PCB1	R6174	CARBON R	R16J-47K	1	417344734T	
PCB1	R6180	CARBON R	R16J-47K	1	417344734T	
PCB1	R6181	CARBON R	R16J-47K	1	417344734T	
PCB1	R6182	CARBON R	R16J-47K	1	417344734T	
PCB1	R6183	CARBON R	R16J-47K	1	417344734T	
PCB1	R6184	CARBON R	R16J-47K	1	417344734T	
PCB1	R6190	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R6191	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R6192	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R6193	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R6194	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R6197	METAL O R	RS1WBJ-100	1	443621014T	
PCB1	R6701	C-CARBON R	RN72K1J-223JE	1	435032234R1	
PCB1	R6702	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R6704	C-CARBON R	RN72K1J-473JE	1	435034734R1	
PCB1	R6706	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R6708	C-CARBON R	RN72K1J-333JE	1	435033334R1	
PCB1	R6709	C-CARBON R	RN72K1J-562JE	1	435035624R1	
PCB1	R6710	C-CARBON R	RN72K1J-123JE	1	435031234R1	
PCB1	R6902	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB1	R6903	C-CARBON R	RN72K1J-473JE	1	435034734R1	
PCB1	RL6901	RELAY	NRL-1P10A-DC12-140	1	25065584	!
PCB1	RL6902	RELAY	NRL-1P10A-DC12-140	1	25065584	!
PCB1	P302	PLUG	NPLG-14P0969	1	25056019	
PCB1	P303	PLUG	NPLG-14P0969	1	25056019	
PCB1	P304	PLUG	NPLG-3P0958	1	25056008	
PCB1	P5505	TRM(SCREW)	NEJITANSI M3	1	25065425	
PCB1	P6080	PLUG	NPLG-2P29	1	25055038	
PCB1	P6081	PLUG	NPLG-2P29	1	25055038	
PCB1	P6082	PLUG	NPLG-2P29	1	25055038	
PCB1	P6083	PLUG	NPLG-2P29	1	25055038	
PCB1	P6084	PLUG	NPLG-2P29	1	25055038	
PCB1	P6900	CRIMP AS	CRIMP AS	1	20799162UL	
PCB1	P6901	CRIMP AS	CRIMP AS	1	2069925226UL	
PCB1	P6902	CRIMP AS	CRIMP AS	1	2069925189UL	
PCB1	P6903	CRIMP AS	CRIMP AS	1	20799163UL	
PCB1	P6904	CRIMP AS	CRIMP AS	1	20799164UL	
PCB1	P6911	RETAINER	(BUS)	1	27142022	
PCB1	P7900	ST JACK	LGY2502-0200FC	1	25045696	
PCB1	P7902	PIN JACK	NPJ-6PDWWWRRR561	1	25045779	
PCB1	P7902 or	PIN JACK	NPJ-6PDBL159	(1)	25045300	
PCB1	P7904	PIN JACK	NPJ-6PDWWWRRR561	1	25045779	
PCB1	P7904 or	PIN JACK	NPJ-6PDBL159	(1)	25045300	
PCB1	P7905	PIN JACK	NPJ-6PWRLGGP493	1	25045697	
PCB1	P7908	PIN JACK	NPJ-1PDP555	1	25045773	

PCB1	F6901A	FUSE HOL	NSCT-1P2031	1	25052133T	!
PCB1	F6901B	FUSE HOL	NSCT-1P2031	1	25052133T	!
PCB1	F6902A	FUSE HOL	NSCT-1P2031	1	25052133T	!
PCB1	F6902B	FUSE HOL	NSCT-1P2031	1	25052133T	!
PCB1	J5500	PVC	1007#24 .2/7HAND B	1	---	NSP
PCB1	J5500 or	PVC	1007#24 .2/7HAND R	(1)	---	NSP
PCB1	JL5502	JUMPER LEAD	JL7 300 B	1	---	NSP
PCB1	JL5502A	WIRE HOL	NSCT-7P878	1	25051091	
PCB1	JL6402	JUMPER LEAD	JL3 300 B	1	---	NSP
PCB1	JL6402A	WIRE HOL	NSCT-3P874	1	25051087	
PCB1	JL6600	JUMPER LEAD	JL7 200 H	1	---	NSP
PCB1	JL6600A	WIRE HOL	NSCT-7P898	1	25051111	
PCB1	JL6603	JUMPER LEAD	JL9 200 H	1	---	NSP
PCB1	JL6603A	WIRE HOL	NSCT-9P900	1	25051113	
PCB1	JL6952	JUMPER LEAD	JL4 150 H	1	---	NSP
PCB1	JL6952A	WIRE HOL	NSCT-4P895	1	25051108	
PCB1	JL6952B	WIRE HOL	NSCT-4P895	1	25051108	

PCB2 **U05** DISPLAY PC BOARD (NADIS-9148-1T)
PCB2 **U06** SWITCH PC BOARD (NADIS-9149-1T)
PCB2 **U07** POWER SUPPLY PC BOARD (NAPS-9150-1T)
PCB2 **U08** TRANS. SEC. TERMINAL PC BOARD (NAPS-9151-1T)
PCB2 **U09** HEADPHONE JACK PC BOARD (NAETC-9153-1T)
PCB2

	CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
PCB2	U7041	REMO SENS	NJL34H380A	1	241365	
PCB2	Q7001	FL TUBE	16-BT-138GNK	1	212268	
PCB2	Q7001A	HOLDER	(FL)	1	27191222C	
PCB2	Q7003	IC	M66005-0001AHP	1	22242208R3	
PCB2	Q7004	TR	2SC2458-GR	1	2212115T	
PCB2	Q7004 or	TR	2SC1740S-R	(1)	2213284T	
PCB2	Q7004 or	TR	2SC1740S-S	(1)	2213285T	
PCB2	Q7005	TR	KRA102M	1	2215770T	
PCB2	Q7005 or	TR	DTA114ES	(1)	2213510T	
PCB2	Q7007	TR	KRC102M	1	2215960T	
PCB2	Q7007 or	TR	DTC114ES	(1)	2213290T	
PCB2	Q7401	IC	NJM4580D-D	1	22241112	
PCB2	Q7403	TR	KRC111M	1	2216320T	
PCB2	Q7403 or	TR	DTC114TS	(1)	221299T	
PCB2	Q7404	TR	KRC111M	1	2216320T	
PCB2	Q7404 or	TR	DTC114TS	(1)	221299T	
PCB2	D7002	ZENER D	MTZJ8.2C	1	224470823T	
PCB2	D7151	LED	SLI-343URC-TE7	1	225449T	
PCB2	D7401	ZENER D	MTZJ5.1B	1	224470512T	
PCB2	D7411	ZENER D	MTZJ6.8C	1	224470683T	
PCB2	D7411 or	ZENER D	DZ-6.8BSC	(1)	224850683T	
PCB2	D7412	ZENER D	MTZJ6.8C	1	224470683T	
PCB2	D7412 or	ZENER D	DZ-6.8BSC	(1)	224850683T	
PCB2	D911	DIODE	1SS133	1	223163T	
PCB2	D912	DIODE	1SS133	1	223163T	
PCB2	D921	DIODE	1SS133	1	223163T	

PCB2	D922	DIODE	1SS133	1	223163T	
PCB2	D923	DIODE	1SS133	1	223163T	
PCB2	D924	DIODE	1SS133	1	223163T	
PCB2	D925	DIODE	1SS133	1	223163T	
PCB2	D930	DIODE	1SS133	1	223163T	
PCB2	D931	DIODE	1SS133	1	223163T	
PCB2	D933	DIODE	1SS133	1	223163T	
PCB2	D934	ZENER D	MTZJ5.1B	1	224470512T	
PCB2	D935	DIODE	1SS133	1	223163T	
PCB2	T902	P TRANS	NPT-1520JQ	1	2301812A	!
PCB2	L7031	CHOKE COIL	NCH-1561 022K	1	233526K022T	
PCB2	L7201	CHOKE COIL	NCH-1561 022K	1	233526K022T	
PCB2	L7202	CHOKE COIL	NCH-1561 022K	1	233526K022T	
PCB2	L7203	CHOKE COIL	NCH-1561 022K	1	233526K022T	
PCB2	L7401	CHOKE COIL	NCH-1561 022K	1	233526K022T	
PCB2	L7402	CHOKE COIL	NCH-1561 022K	1	233526K022T	
PCB2	C901	IS C	ECQU2A103MLC	1	3800039S	!
PCB2	C901 or	IS C	RE275V-103M	(1)	3500196S	!
PCB2	C901 or	IS C	LE103-C3.5	(1)	3800042S	!
PCB2	C902	TF C	ECQ-V50V-104J	1	374721044T	
PCB2	C911	TF C	ECQ-B50V-102J	1	374721024T	
PCB2	C921	CERA C	CK45F50V-223Z	1	335622230T	
PCB2	C922	VR C	CE04W25V-2200M(VR)	1	394652227S	
PCB2	C930	UTSP C	CE04W50V-100M(UTSP)	1	397581017T	
PCB2	C933	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T	
PCB2	C7001	CERA C	CK45F50V-223Z	1	335622230T	
PCB2	C7002	MMT C	MMT50V-104J	1	375521044T	
PCB2	C7003	CERA C	CC45SL50V-101J	1	345021014T	
PCB2	C7004	CERA C	CC45SL50V-101J	1	345021014T	
PCB2	C7005	CERA C	CC45SL50V-101J	1	345021014T	
PCB2	C7007	CERA C	CC45SL50V-101J	1	345021014T	
PCB2	C7008	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
PCB2	C7009	MMT C	MMT50V-104J	1	375521044T	
PCB2	C7010	CERA C	CK45F50V-223Z	1	335622230T	
PCB2	C7011	CERA C	CK45F50V-223Z	1	335622230T	
PCB2	C7012	CERA C	CK45F50V-223Z	1	335622230T	
PCB2	C7013	VR C	CE04W50V-33M(VR)	1	394683307T	
PCB2	C7014	CERA C	CK45F50V-223Z	1	335622230T	
PCB2	C7015	ELECT C	CE04W16V-47M(S)	1	353744709T	
PCB2	C7016	CERA C	CK45F50V-223Z	1	335622230T	
PCB2	C7017	CERA C	CK45F50V-223Z	1	335622230T	
PCB2	C7021	CERA C	CK45F50V-103Z	1	335621030T	
PCB2	C7022	CERA C	CK45F50V-103Z	1	335621030T	
PCB2	C7031	CERA C	CK45F50V-223Z	1	335622230T	
PCB2	C7032	CERA C	CK45F50V-223Z	1	335622230T	
PCB2	C7041	ELECT C	CE04W6.3V-100M(S)	1	353721019T	
PCB2	C7043	CERA C	CK45B50V-102K	1	335321025T	
PCB2	C7201	TF C	ECQ-B50V-472J	1	374724724T	
PCB2	C7202	TF C	ECQ-B50V-223J	1	374722234T	
PCB2	C7203	TF C	ECQ-B50V-102J	1	374721024T	
PCB2	C7204	TF C	ECQ-B50V-102J	1	374721024T	

PCB2	C7301	TF C	ECQ-B50V-471J	1	374724714T	
PCB2	C7302	TF C	ECQ-B50V-471J	1	374724714T	
PCB2	C7303	MMT C	MMT50V-104J	1	375521044T	
PCB2	C7304	MMT C	MMT50V-104J	1	375521044T	
PCB2	C7305	MMT C	MMT50V-104J	1	375521044T	
PCB2	C7401	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB2	C7402	CERA C	CC45SL50V-101J	1	345021014T	
PCB2	C7403	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB2	C7404	CERA C	CC45SL50V-330J	1	345023304T	
PCB2	C7405	ELECT C	CE04W16V-10M(S)	1	353741009T	
PCB2	C7411	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB2	C7412	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB2	C7421	CERA C	CC45SL50V-102J	1	345021024T	
PCB2	C9101	MMT C	MMT50V-104J	1	375521044T	
PCB2	R921	METAL O R	RS1/2WBJ-56	1	443525604T	
PCB2	R934	CARBON R	R16J-100K	1	417341044T	
PCB2	R7001	CARBON R	R16J-100K	1	417341044T	
PCB2	R7002	CARBON R	R16J-3.3K	1	417343324T	
PCB2	R7003	CARBON R	R16J-3.3K	1	417343324T	
PCB2	R7004	CARBON R	R16J-220	1	417342214T	
PCB2	R7005	CARBON R	R16J-220	1	417342214T	
PCB2	R7006	CARBON R	R16J-27K	1	417342734T	
PCB2	R7007	CARBON R	R16J-220	1	417342214T	
PCB2	R7008	CARBON R	R16J-220	1	417342214T	
PCB2	R7021	CARBON R	R16J-10K	1	417341034T	
PCB2	R7022	CARBON R	R16J-10K	1	417341034T	
PCB2	R7023	CARBON R	R16J-10K	1	417341034T	
PCB2	R7024	CARBON R	R16J-10K	1	417341034T	
PCB2	R7041	CARBON R	R16J-100	1	417341014T	
PCB2	R7042	CARBON R	R16J-1K	1	417341024T	
PCB2	R7101	CARBON R	R16J-330	1	417343314T	
PCB2	R7102	CARBON R	R16J-470	1	417344714T	
PCB2	R7103	CARBON R	R16J-560	1	417345614T	
PCB2	R7104	CARBON R	R16J-820	1	417348214T	
PCB2	R7105	CARBON R	R16J-1.2K	1	417341224T	
PCB2	R7107	CARBON R	R16J-330	1	417343314T	
PCB2	R7108	CARBON R	R16J-470	1	417344714T	
PCB2	R7109	CARBON R	R16J-560	1	417345614T	
PCB2	R7110	CARBON R	R16J-820	1	417348214T	
PCB2	R7111	CARBON R	R16J-1.2K	1	417341224T	
PCB2	R7112	CARBON R	R16J-2.2K	1	417342224T	
PCB2	R7113	CARBON R	R16J-3.9K	1	417343924T	
PCB2	R7114	CARBON R	R16J-12K	1	417341234T	
PCB2	R7115	CARBON R	R16J-330	1	417343314T	
PCB2	R7116	CARBON R	R16J-470	1	417344714T	
PCB2	R7117	CARBON R	R16J-560	1	417345614T	
PCB2	R7118	CARBON R	R16J-820	1	417348214T	
PCB2	R7119	CARBON R	R16J-1.2K	1	417341224T	
PCB2	R7120	CARBON R	R16J-2.2K	1	417342224T	
PCB2	R7121	CARBON R	R16J-3.9K	1	417343924T	
PCB2	R7122	CARBON R	R16J-12K	1	417341234T	

PCB2	R7123	CARBON R	R16J-330	1	417343314T	
PCB2	R7124	CARBON R	R16J-470	1	417344714T	
PCB2	R7125	CARBON R	R16J-560	1	417345614T	
PCB2	R7126	CARBON R	R16J-820	1	417348214T	
PCB2	R7127	CARBON R	R16J-1.2K	1	417341224T	
PCB2	R7128	CARBON R	R16J-2.2K	1	417342224T	
PCB2	R7129	CARBON R	R16J-3.9K	1	417343924T	
PCB2	R7130	CARBON R	R16J-12K	1	417341234T	
PCB2	R7151	CARBON R	R16J-2.2K	1	417342224T	
PCB2	R7301	CARBON R	R16J-330	1	417343314T	
PCB2	R7302	CARBON R	R16J-330	1	417343314T	
PCB2	R7303	CARBON R	R16J-75	1	417347504T	
PCB2	R7401	CARBON R	R16J-100	1	417341014T	
PCB2	R7402	CARBON R	R16J-47K	1	417344734T	
PCB2	R7403	CARBON R	R16J-4.7K	1	417344724T	
PCB2	R7404	CARBON R	R16J-220	1	417342214T	
PCB2	R7405	CARBON R	R16J-47K	1	417344734T	
PCB2	R7406	CARBON R	R16J-330	1	417343314T	
PCB2	R7407	CARBON R	R16J-1K	1	417341024T	
PCB2	R7408	CARBON R	R16J-33K	1	417343334T	
PCB2	R7409	CARBON R	R16J-220	1	417342214T	
PCB2	R7410	CARBON R	R16J-220	1	417342214T	
PCB2	R7411	CARBON R	R16J-470	1	417344714T	
PCB2	R7412	CARBON R	R16J-470	1	417344714T	
PCB2	R7413	CARBON R	R16J-220K	1	417342244T	
PCB2	R7414	CARBON R	R16J-100K	1	417341044T	
PCB2	R9101	METAL R	RNU1/2WCJ-0.1	1	453531094T	
PCB2	R9102	METAL R	RNU1/2WCJ-8.2	1	453530824T	
PCB2	RL901	RELAY	NRL-1P5A-DC9-179	1	25065669	!
PCB2	S7001	R ENCODE	EC12E2425WITH WASHER	1	25065655W	
PCB2	S7101	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7104	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7106	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7107	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7115	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7117	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7119	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7123	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7125	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7127	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7129	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7132	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7138	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7140	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7142	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7144	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7146	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7148	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7149	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7151	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7153	PUSH SW	NPS-111-S681	1	25035718T	

PCB2	S7155	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7157	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7159	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7161	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7164	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	S7166	PUSH SW	NPS-111-S681	1	25035718T	
PCB2	P701B	SOCKET	NSCT-32P2162	1	25052265	
PCB2	P901A	PLUG	NPLG-2P631	1	25055675	!
PCB2	P901A or	PLUG	1-1123724-2	(1)	25056402	!
PCB2	P911	PLUG	NPLG-2P631	1	25055675	!
PCB2	P911 or	PLUG	1-1123724-2	(1)	25056402	!
PCB2	P7201	ST JACK	MSJ-064-05A SR	1	25045783	
PCB2	P7201 or	ST JACK	YKB21-5005	(1)	25045724	
PCB2	P7301	PIN JACK	NPJ-7PDB477	1	25045680	
PCB2	P7401	ST JACK	MSJ-035-05C B AG SR type	1	25045879	
PCB2	E7201	TRM(SCREW)	NEJITANSI M3	1	25065425	
PCB2	E7301	RETAINER	(S)	1	27142074	
PCB2	E901	TRM(SCREW)	NEJITANSI M3	1	25065425	
PCB2	E902	TRM(SCREW)	NEJITANSI M3	1	25065425	
PCB2	F901C	FUSE HOL	NSCT-1P2031	1	25052133T	!
PCB2	F901D	FUSE HOL	NSCT-1P2031	1	25052133T	!
PCB2	JL901	JUMPER LEAD	JL5 150 B	1	---	NSP
PCB2	JL901A	WIRE HOL	NSCT-5P876	1	25051089	
PCB2	JL6605	JUMPER LEAD	JL5 400 H	1	---	NSP
PCB2	JL6605A	WIRE HOL	NSCT-5P896	1	25051109	
PCB2	JL7101	JUMPER LEAD	JL9 200 H	1	---	NSP
PCB2	JL7101A	WIRE HOL	NSCT-9P900	1	25051113	
PCB2	JL7101B	WIRE HOL	NSCT-9P900	1	25051113	
PCB2	JL9101	JUMPER LEAD	JL6 300 H	1	---	NSP
PCB2	JL9101A	WIRE HOL	NSCT-6P897	1	25051110	

PCB3 **U12** DSP PC BOARD (NADG-9177-1J)
PCB3 **U13** VIDEO & SPEAKER TERMINAL PC BOARD (NAVD-9178-1J)
PCB3 **U14** XM DIGITAL TRANSCEIVER PC BOARD (NADG-9179-1J)
PCB3

	CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
PCB3	U131	PHT CP	GP1FAV51RK0F	1	24120129	
PCB3	U131 or	PHT CP	JSR1165-001recieving	(1)	24120143	
PCB3	U132	PHT CP	GP1FAV51RK0F	1	24120129	
PCB3	U132 or	PHT CP	JSR1165-001recieving	(1)	24120143	
PCB3	Q131	IC	74HCU04F	1	222740046R2	
PCB3	Q151	IC	TC74VHC541FT	1	22274541ER2TO	
PCB3	Q151 or	IC	TC74VHC541FT(EKJ)	(1)	22274541E1R2TO	
PCB3	Q152	IC	TC74HCT7007AF(EL_F)	1	222740077R2TO	
PCB3	Q171	IC	TC7WU04FU(TE12L_F)	1	22240935R2	
PCB3	Q201	IC	D707E001BRFP250	1	22242401R3	
PCB3	Q201 or	IC	D707E001RFP250	(1)	22242309R3	
PCB3	Q281	IC	M12L16161A-7TG	1	22242278R3	
PCB3	Q281 or	IC	IS42S16100C1-7TL	(1)	22242123R2	
PCB3	Q281 or	IC	RMS116T(LF)	(1)	22242340R3	
PCB3	Q282	IC (DSP ROM)	ES29LV400	1	222W0045R3	

PCB3	Q282 or	IC (DSP ROM)	ES29LV400ET-70TG	(1)	222W0065R3
PCB3	Q282 or	IC (DSP ROM)	S29AL004D70TFI010	(1)	222W0061R3
PCB3	Q301	IC	CS42518-CQZR-D	1	22242229R2
PCB3	Q341	IC	NJM4580M-D	1	22241448R2
PCB3	Q401	IC	NJM4580M-D	1	22241448R2
PCB3	Q402	IC	NJM4580M-D	1	22241448R2
PCB3	Q403	IC	NJM4580M-D	1	22241448R2
PCB3	Q601	TR	KRC104S	1	2216210R2
PCB3	Q601 or	TR	RN1404	(1)	2214490R2
PCB3	Q602	TR	KRA102S	1	2216220R2
PCB3	Q602 or	TR	RN2402	(1)	2214530R2
PCB3	Q610	IC	S-24CS16A0I-J8V1G	1	22242326R2
PCB3	Q701	IC (MICROPROCESSOR)	M30624MHP-B06FP505/575	1	22242459R3
PCB3	Q702	IC	S-812C56AUA-C3K	1	22242207R2
PCB3	Q741	IC	SI8008TM	1	22242323R2
PCB3	Q742	IC	BD7820	1	22242300R2
PCB3	Q746	IC	TA48033AF(TE16L_NQ)	1	22278033DR2TO
PCB3	Q746 or	IC	BA33BC0FP	(1)	22278033DR2RH
PCB3	Q751	TR	KRC104S	1	2216210R2
PCB3	Q751 or	TR	RN1404	(1)	2214490R2
PCB3	Q752	TR	KRA102S	1	2216220R2
PCB3	Q752 or	TR	RN2402	(1)	2214530R2
PCB3	Q2001	IC	BU9450KV-E2	1	22242505R2
PCB3	Q2002	IC	CS4344-CZZR	1	22242406R2
PCB3	Q2003	IC	NE5532APSR	1	22242283R2
PCB3	Q2004	IC	TA48033AF(TE16L_NQ)	1	22278033DR2TO
PCB3	Q2004 or	IC	BA33BC0FP	(1)	22278033DR2RH
PCB3	Q2004 or	IC	NJM2391DL1-33	(1)	22278033DR2JR
PCB3	Q2005	IC	TA48033AF(TE16L_NQ)	1	22278033DR2TO
PCB3	Q2005 or	IC	BA33BC0FP	(1)	22278033DR2RH
PCB3	Q2005 or	IC	NJM2391DL1-33	(1)	22278033DR2JR
PCB3	Q2006	IC	TC74HCT7007AF(EL_F)	1	222740077R2TO
PCB3	Q2007	IC	TC74VHC541FT	1	22274541ER2TO
PCB3	Q2007 or	IC	TC74VHC541FT(EKJ)	(1)	22274541E1R2TO
PCB3	Q2008	IC	4053BFT(TC4053BFT)	1	222840533R2TO
PCB3	Q4002	IC	AN15881A-VT	1	22242318R3
PCB3	Q6601	TR	KRC105S	1	2217290R2
PCB3	Q6601 or	TR	RN1405	(1)	2214500R2
PCB3	Q6601 or	TR	DTC123JKA	(1)	2216690R2
PCB3	Q6602	TR	KRC105S	1	2217290R2
PCB3	Q6602 or	TR	RN1405	(1)	2214500R2
PCB3	Q6602 or	TR	DTC123JKA	(1)	2216690R2
PCB3	Q9001	TR	2SC2235-Y(TPE6_F)	1	2211654T
PCB3	Q9002	TR	KRC105S	1	2217290R2
PCB3	Q9002 or	TR	RN1405	(1)	2214500R2
PCB3	Q9002 or	TR	DTC123JKA	(1)	2216690R2
PCB3	Q9022	IC	BA00JC5WT-V5	1	222580002
PCB3	Q9022A	SCREW	3P+10FN(3BC)	1	82143010GR
PCB3	Q9031	IC	MPC2905BHF	1	22278005DBNE
PCB3	Q9031A	SCREW	3P+10FN(3BC)	1	82143010GR
PCB3	Q9031B	HEAT SINK	RAD-231	1	27160592

PCB3	D103	C-DIODE	1SS355	1	223269R2
PCB3	D103 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D103 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D103 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D104	C-DIODE	1SS355	1	223269R2
PCB3	D104 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D104 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D104 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D404	ZENER D	UDZS5.1B	1	224550510R2
PCB3	D601	C-DIODE	1SS355	1	223269R2
PCB3	D601 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D601 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D601 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D604	C-DIODE	1SS355	1	223269R2
PCB3	D604 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D604 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D604 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D701	C-DIODE	1SS355	1	223269R2
PCB3	D701 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D701 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D701 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D702	C-DIODE	1SS355	1	223269R2
PCB3	D702 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D702 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D702 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D703	C-DIODE	1SS355	1	223269R2
PCB3	D703 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D703 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D703 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D705	C-DIODE	1SS355	1	223269R2
PCB3	D705 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D705 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D705 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D706	C-DIODE	1SS355	1	223269R2
PCB3	D706 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D706 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D706 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D741	C-DIODE	CRS09(TE85L_Q)	1	223274R2
PCB3	D742	C-DIODE	1SS355	1	223269R2
PCB3	D742 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D742 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D742 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D743	C-DIODE	1SS355	1	223269R2
PCB3	D743 or	C-DIODE	1SS352	(1)	223234R2
PCB3	D743 or	C-DIODE	KDS4148U	(1)	223283R2
PCB3	D743 or	C-DIODE	MA2J111	(1)	223279R2
PCB3	D744	DIODE	RL1N4003	1	22380260T
PCB3	D744 or	DIODE	GP104003E	(1)	22380035T
PCB3	D6600	C-DIODE	1SS352	1	223234R2
PCB3	D6600 or	C-DIODE	1SS355	(1)	223269R2
PCB3	D6603	C-DIODE	1SS352	1	223234R2

PCB3	D6603 or	C-DIODE	1SS355	(1)	223269R2
PCB3	D2001	ZENER D	UDZS5.1B	1	224550510R2
PCB3	D2001 or	ZENER D	MAZ8051-M	(1)	224750512R2
PCB3	D9002	DIODE	RL1N4003	1	22380260T
PCB3	D9002 or	DIODE	GP104003E	(1)	22380035T
PCB3	D9005	ZENER D	UDZS36B	1	224553600R2
PCB3	D9011	DIODE	D3SBA20	1	22380271F
PCB3	D9011 or	DIODE	RBV402	(1)	22380022F
PCB3	D9012	C-DIODE	1SS352	1	223234R2
PCB3	D9012 or	C-DIODE	1SS355	(1)	223269R2
PCB3	D9013	C-DIODE	1SS352	1	223234R2
PCB3	D9013 or	C-DIODE	1SS355	(1)	223269R2
PCB3	D9014	C-DIODE	1SS352	1	223234R2
PCB3	D9014 or	C-DIODE	1SS355	(1)	223269R2
PCB3	D9015	C-DIODE	1SS352	1	223234R2
PCB3	D9015 or	C-DIODE	1SS355	(1)	223269R2
PCB3	D9017	C-DIODE	1SS352	1	223234R2
PCB3	D9017 or	C-DIODE	1SS355	(1)	223269R2
PCB3	D9018	DIODE	RL1N4003	1	22380260T
PCB3	D9018 or	DIODE	GP104003E	(1)	22380035T
PCB3	D9020	C-DIODE	1SS352	1	223234R2
PCB3	D9020 or	C-DIODE	1SS355	(1)	223269R2
PCB3	D9022	DIODE	RL1N4003	1	22380260T
PCB3	D9022 or	DIODE	GP104003E	(1)	22380035T
PCB3	D9024	ZENER D	UDZ3.3B	1	224490330R2
PCB3	X171	CRYSTAL	HC-49US24.576MHz	1	3010423T
PCB3	X171 or	CRYSTAL	HC-49/U03-24.576M	(1)	3010314T
PCB3	X701	CERA LOCK	CSTCR6M0055-R0	1	3010397R2
PCB3	X2001	CRYSTAL	DSX840GA 45.1584MHz	1	3010420R2
PCB3	L131	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
PCB3	L132	CHOKE COIL	LBC2518T2R2M	1	231364M022R2
PCB3	L133	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
PCB3	L134	CHOKE COIL	LBC2518T470M	1	231364M470R2
PCB3	L151	CHOKE COIL	BLM21PG221SN1	1	230949R2
PCB3	L152	CHOKE COIL	BLM21PG221SN1	1	230949R2
PCB3	L171	CHOKE COIL	LBC2518T470M	1	231364M470R2
PCB3	L172	EMIFIL	BK1608LM182-T	1	230958R1
PCB3	L173	EMIFIL	BK1608LM182-T	1	230958R1
PCB3	L201	CHOKE COIL	BLM21PG221SN1	1	230949R2
PCB3	L202	CHOKE COIL	BLM21PG221SN1	1	230949R2
PCB3	L203	EMIFIL	BK1608LL241-T	1	230959R1
PCB3	L241	EMIFIL	ACF451832-333-T	1	230978R2
PCB3	L281	CHOKE COIL	BLM21PG221SN1	1	230949R2
PCB3	L282	CHOKE COIL	BLM21PG221SN1	1	230949R2
PCB3	L283	CHOKE COIL	BLM21PG221SN1	1	230949R2
PCB3	L284	CHOKE COIL	BLM21PG221SN1	1	230949R2
PCB3	L302	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
PCB3	L303	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
PCB3	L304	CHOKE COIL	LBC2518T4R7M	1	231364M047R2
PCB3	L312	EMIFIL	BK1608LM182-T	1	230958R1
PCB3	L313	EMIFIL	BK1608LM182-T	1	230958R1

PCB3	L741	CHOKE COIL	NCH-2541	1	231363K470	
PCB3	L2001	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	
PCB3	L2002	EMIFIL	BK1608LM182-T	1	230958R1	
PCB3	L2003	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	
PCB3	L2004	CHOKE COIL	BLM21PG221SN1	1	230949R2	
PCB3	L2005	CHOKE COIL	BLM21PG221SN1	1	230949R2	
PCB3	L2006	CHOKE COIL	BLM21PG221SN1	1	230949R2	
PCB3	L4001	C-CARBON R	RN72K2E-022JE	1	435220224R1	
PCB3	L4010	C-CARBON R	RN72K2E-220JE	1	435222204R1	
PCB3	L4011	C-CARBON R	RN72K2E-022JE	1	435220224R1	
PCB3	L4015	CHOKE COIL	LBC2518T4R7M	1	231364M047R2	
PCB3	C102	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C103	UTSP C	CE04W25V-100M(UTSP)	1	397551017T	
PCB3	C104	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C106	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C107	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C108	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C131	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB3	C132	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB3	C133	C-CERA C	CK725B1C-104K1	1	332121045R1	
PCB3	C134	C-CERA C	CK725B1C-104K1	1	332121045R1	
PCB3	C135	C-CERA C	CC725CH1H-080D1	1	342100802R1	
PCB3	C136	C-CERA C	CC725CH1H-080D1	1	342100802R1	
PCB3	C139	VR C	CE04W6.3V-220M(VR)	1	394622217T	
PCB3	C140	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C141	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C142	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C145	VR C	CE04W6.3V-220M(VR)	1	394622217T	
PCB3	C146	C-CERA C	CK725B1H-103K1	1	332101035R1	
PCB3	C147	C-CERA C	CK725B1H-103K1	1	332101035R1	
PCB3	C151	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C152	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C171	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C172	C-CERA C	CC725CH1H-060D1	1	342100602R1	
PCB3	C173	C-CERA C	CC725CH1H-060D1	1	342100602R1	
PCB3	C201	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C202	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C203	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C204	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C205	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C206	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C207	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C208	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C209	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C210	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C211	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C213	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C214	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C215	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C221	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C222	C-CERA C	CK725F1E-104Z1	1	332161040R1	

PCB3	C223	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C224	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C225	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C226	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C227	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C228	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C229	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C230	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C231	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C232	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C241	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C242	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C245	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB3	C271	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C272	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C281	VR C	CE04W6.3V-220M(VR)	1	394622217T	
PCB3	C282	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C283	VR C	CE04W6.3V-220M(VR)	1	394622217T	
PCB3	C284	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C285	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C286	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C287	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C288	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C289	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C290	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C291	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C301	C-CERA C	CK725F1H-103Z1	1	332151030R1	
PCB3	C302	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
PCB3	C303	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
PCB3	C304	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
PCB3	C305	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C306	RFS C	CE04W25V-47M(RFS)	1	395954707T	
PCB3	C307	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C308	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
PCB3	C309	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C310	C-CERA C	CK725B1H-222K1	1	332102225R1	
PCB3	C311	C-CERA C	CK725B1H-473K1	1	332104735R1	
PCB3	C312	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C313	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C314	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C315	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C316	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB3	C318	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C319	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C320	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C321	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C322	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C323	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C324	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C325	C-CERA C	CC732CH1H-222J	1	347342224R2	
PCB3	C326	C-CERA C	CC732CH1H-222J	1	347342224R2	

PCB3	C333	C-CERA C	CC725CH1H-330J1	1	342103304R1	
PCB3	C334	C-CERA C	CC725CH1H-330J1	1	342103304R1	
PCB3	C336	C-CERA C	CC725CH1H-330J1	1	342103304R1	
PCB3	C337	C-CERA C	CC725CH1H-330J1	1	342103304R1	
PCB3	C341	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB3	C342	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB3	C401	TF C	ECQ-B50V-472J	1	374724724T	
PCB3	C402	TF C	ECQ-B50V-472J	1	374724724T	
PCB3	C403	TF C	ECQ-B50V-472J	1	374724724T	
PCB3	C404	TF C	ECQ-V50V-333J	1	374723334T	
PCB3	C405	TF C	ECQ-B50V-472J	1	374724724T	
PCB3	C406	TF C	ECQ-B50V-472J	1	374724724T	
PCB3	C411	TF C	ECQ-B50V-681J	1	374726814T	
PCB3	C412	TF C	ECQ-B50V-681J	1	374726814T	
PCB3	C413	TF C	ECQ-B50V-681J	1	374726814T	
PCB3	C414	TF C	ECQ-B50V-153J	1	374721534T	
PCB3	C415	C-CERA C	CC725CH1H-681J1	1	342106814R1	
PCB3	C416	C-CERA C	CC725CH1H-681J1	1	342106814R1	
PCB3	C421	TF C	ECQ-B50V-681J	1	374726814T	
PCB3	C422	TF C	ECQ-B50V-681J	1	374726814T	
PCB3	C423	TF C	ECQ-B50V-681J	1	374726814T	
PCB3	C424	TF C	ECQ-B50V-153J	1	374721534T	
PCB3	C425	C-CERA C	CC725CH1H-681J1	1	342106814R1	
PCB3	C426	C-CERA C	CC725CH1H-681J1	1	342106814R1	
PCB3	C591	UTSP C	CE04W25V-220M(UTSP)	1	397552217T	
PCB3	C592	UTSP C	CE04W25V-220M(UTSP)	1	397552217T	
PCB3	C600	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C601	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C602	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C603	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C604	UTSP C	CE04W50V-4.7M(UTSP)	1	397580477T	
PCB3	C605	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C606	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB3	C607	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB3	C608	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C609	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C610	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C611	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C612	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C613	C-CERA C	CK732B1A-105K	1	337361055R2	
PCB3	C614	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C615	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C616	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C617	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C618	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C619	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C620	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C621	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C622	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB3	C623	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB3	C624	C-CERA C	CK725F1E-104Z1	1	332161040R1	

PCB3	C625	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C626	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C627	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C628	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C629	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C701	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C702	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
PCB3	C705	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
PCB3	C706	VR C	CE04W16V-470M(VR)	1	3946447l7T	
PCB3	C741	VR C	CE04W16V-470M(VR)	1	3946447l7T	
PCB3	C742	C-CERA C	CK725B1C-104K1	1	332121045R1	
PCB3	C743	VR C	CE04W6.3V-1000M(VR)	1	394621027T	
PCB3	C745	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C746	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
PCB3	C747	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C748	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
PCB3	C751	UTSP C	CE04W50V-1M(UTSP)	1	397580107T	
PCB3	C753	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C754	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C755	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2001	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2002	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C2003	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2004	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2005	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2006	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2007	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
PCB3	C2008	C-CERA C	CC725CH1H-040C1	1	342100401R1	
PCB3	C2009	C-CERA C	CC725CH1H-080D1	1	342100802R1	
PCB3	C2010	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2011	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2012	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2013	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2015	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2016	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C2017	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2018	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
PCB3	C2021	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C2022	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C2023	C-CERA C	CC725CH1H-821J1	1	342108214R1	
PCB3	C2024	C-CERA C	CC725CH1H-821J1	1	342108214R1	
PCB3	C2025	C-CERA C	CC725CH1H-821J1	1	342108214R1	
PCB3	C2026	C-CERA C	CC725CH1H-821J1	1	342108214R1	
PCB3	C2027	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C2028	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C2029	VR C	CE04W16V-220M(VR)	1	394642217T	
PCB3	C2030	VR C	CE04W16V-220M(VR)	1	394642217T	
PCB3	C2031	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2032	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2033	UTSP C	CE04W10V-470M(UTSP)	1	397534717T	
PCB3	C2034	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	

PCB3	C2035	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2036	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2037	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2041	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C2042	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C2043	UTSP C	CE04W10V-100M(UTSP)	1	397531017T	
PCB3	C2044	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C2045	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4001	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4002	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4003	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4004	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4005	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4006	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4007	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4008	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4009	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4013	C-CERA C	CK725B1H-103K1	1	332101035R1	
PCB3	C4015	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C4016	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4017	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4018	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4019	C-CERA C	CK725B1H-103K1	1	332101035R1	
PCB3	C4020	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C4021	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB3	C4022	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4023	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4024	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4025	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4026	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4027	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4103	VR C	CE04W6.3V-220M(VR)	1	394622217T	
PCB3	C4104	VR C	CE04W6.3V-220M(VR)	1	394622217T	
PCB3	C4105	UTSP C	CE04W50V-22M(UTSP)	1	397582207T	
PCB3	C4106	VR C	CE04W6.3V-220M(VR)	1	394622217T	
PCB3	C4107	UTSP C	CE04W50V-22M(UTSP)	1	397582207T	
PCB3	C4108	VR C	CE04W6.3V-220M(VR)	1	394622217T	
PCB3	C4110	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4111	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4112	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4114	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C4116	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C4118	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C4121	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C4122	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4123	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB3	C4124	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB3	C4125	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4127	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C4129	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C4131	C-CERA C	CK725F1E-104Z1	1	332161040R1	

PCB3	C4132	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4133	VR C	CE04W6.3V-220M(VR)	1	394622217T	
PCB3	C4134	VR C	CE04W6.3V-220M(VR)	1	394622217T	
PCB3	C4135	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4136	UTSP C	CE04W50V-22M(UTSP)	1	397582207T	
PCB3	C4137	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4138	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4139	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4140	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4141	UTSP C	CE04W25V-47M(UTSP)	1	397554707T	
PCB3	C4142	C-CERA C	CC725CH1H-181J1	1	342101814R1	
PCB3	C4143	C-CERA C	CC725CH1H-181J1	1	342101814R1	
PCB3	C4144	C-CERA C	CC725CH1H-181J1	1	342101814R1	
PCB3	C4148	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4149	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4150	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4151	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C4154	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB3	C4155	C-CERA C	CC725CH1H-221J1	1	342102214R1	
PCB3	C4158	C-CERA C	CC725CH1H-470J1	1	342104704R1	
PCB3	C4159	C-CERA C	CC725CH1H-470J1	1	342104704R1	
PCB3	C4160	C-CERA C	CC725CH1H-470J1	1	342104704R1	
PCB3	C4161	C-CERA C	CC725CH1H-181J1	1	342101814R1	
PCB3	C4162	C-CERA C	CC725CH1H-181J1	1	342101814R1	
PCB3	C4163	C-CERA C	CC725CH1H-181J1	1	342101814R1	
PCB3	C4242	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4243	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C4244	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB3	C6600	TF C	ECQ-B50V-223J	1	374722234T	
PCB3	C6602	TF C	ECQ-B50V-223J	1	374722234T	
PCB3	C6603	TF C	ECQ-B50V-223J	1	374722234T	
PCB3	C9001	VR C	CE04W63V-470M(VR)	1	394674717S	
PCB3	C9005	UTSP C	CE04W50V 47M(UTSP)	1	397584707T	
PCB3	C9006	C-CERA C	CK725F1H-223Z1	1	332152230R1	
PCB3	C9011	VR C	CE04W16V-10000M(VR)	1	394641037S	
PCB3	C9012	TF C	ECQ-V50V-334J	1	374723344T	
PCB3	C9013	UTSP C	CE04W50V-3.3M(UTSP)	1	397580337T	
PCB3	C9022	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB3	C9023	UTSP C	CE04W50V-10M(UTSP)	1	397581007T	
PCB3	C9024	C-CERA C	CK725F1H-223Z1	1	332152230R1	
PCB3	C9025	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	C9031	VR C	CE04W16V-470M(VR)	1	394644717T	
PCB3	C9032	VR C	CE04W6.3V-470M(VR)	1	394624717T	
PCB3	R101	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R103	METAL O R	RS1WBJ-47	1	443624704T	
PCB3	R105	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R106	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R107	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R108	C-CARBON R	RN72K1J-105JE	1	435031054R1	
PCB3	R131	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R132	C-CARBON R	RN72K1J-750JE	1	435037504R1	

PCB3	R133	C-CARBON R	RN72K1J-100JE	1	435031004R1	
PCB3	R134	C-CARBON R	RN72K1J-100JE	1	435031004R1	
PCB3	R135	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB3	R136	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB3	R137	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R138	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R141	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R142	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R171	C-CARBON R	RN72K1J-105JE	1	435031054R1	
PCB3	R172	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R173	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R200	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R201	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R202	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R203	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R204	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R205	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R206	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R207	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R208	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R209	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R221	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R250	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R251	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R252	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R253	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R254	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R255	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R256	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R257	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R258	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R259	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R260	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R261	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R262	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R263	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R264	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R265	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R266	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R267	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R268	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R269	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R278	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R279	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R280	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R281	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R282	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R283	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R284	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R285	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R286	C-CARBON R	RN72K1J-103JE	1	435031034R1	

PCB3	R287	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R301	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R302	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R303	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R304	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R305	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R306	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R307	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R308	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R309	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R311	C-CARBON R	RN72K1J-272JE	1	435032724R1	
PCB3	R312	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R314	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R315	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R316	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R317	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R318	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R319	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R321	C-CARBON R	RN72K1J-560JE	1	435035604R1	
PCB3	R322	C-CARBON R	RN72K1J-560JE	1	435035604R1	
PCB3	R323	C-CARBON R	RN72K1J-560JE	1	435035604R1	
PCB3	R324	C-CARBON R	RN72K1J-560JE	1	435035604R1	
PCB3	R325	C-CARBON R	RN72K1J-392JE	1	435033924R1	
PCB3	R326	C-CARBON R	RN72K1J-392JE	1	435033924R1	
PCB3	R333	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R334	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R336	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R337	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R341	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R342	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R351	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R352	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R401	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R402	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R403	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R404	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R405	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R406	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R411	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R412	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R413	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R414	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R415	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R416	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R421	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R422	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R423	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R424	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R425	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R426	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R431	C-CARBON R	RN72K1J-471JE	1	435034714R1	

PCB3	R432	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R433	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R434	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R435	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R436	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB3	R441	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R442	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R443	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R444	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R445	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R446	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R451	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R452	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R453	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R454	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R455	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R456	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R461	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R462	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R463	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R464	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R465	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R466	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R471	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R472	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R473	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R474	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R475	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R476	C-CARBON R	RN72K1J-181JE	1	435031814R1	
PCB3	R571	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R572	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R591	METAL O R	RS1/2WBJ-22	1	443522204T	
PCB3	R592	METAL O R	RS1/2WBJ-22	1	443522204T	
PCB3	R600	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R601	C-CARBON R	RN72K1J-473JE	1	435034734R1	
PCB3	R602	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB3	R603	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB3	R605	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R606	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R607	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R608	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R609	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R610	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R611	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R613	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R614	C-CARBON R	RN72K1J-105JE	1	435031054R1	
PCB3	R615	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R616	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R617	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R618	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R619	C-CARBON R	RN72K1J-221JE	1	435032214R1	

PCB3	R620	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R621	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R622	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R623	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R624	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R625	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R626	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R627	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R628	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R629	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R631	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB3	R632	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB3	R633	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R634	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R635	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R636	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R637	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R638	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R639	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R640	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R641	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R642	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R643	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R644	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R645	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R646	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R647	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R648	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R649	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R650	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R651	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R652	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R653	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R654	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R658	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R659	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R661	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R662	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R663	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R664	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R665	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R666	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R667	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB3	R668	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R669	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R670	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R671	C-CARBON R	RN72K1J-473JE	1	435034734R1	
PCB3	R672	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R673	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R674	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB3	R675	C-CARBON R	RN72K1J-102JE	1	435031024R1	

PCB3	R676	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB3	R677	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB3	R678	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R679	C-CARBON R	RN72K1J-273JE	1	435032734R1	
PCB3	R680	C-CARBON R	RN72K1J-273JE	1	435032734R1	
PCB3	R682	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R683	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R684	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R685	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R686	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R687	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R688	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R689	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB3	R690	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R691	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R692	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R693	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R694	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R695	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R696	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R697	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R698	C-CARBON R	RN72K1J-272JE	1	435032724R1	
PCB3	R699	C-CARBON R	RN72K1J-272JE	1	435032724R1	
PCB3	R700	C-CARBON R	RN72K1J-272JE	1	435032724R1	
PCB3	R701	C-CARBON R	RN72K1J-272JE	1	435032724R1	
PCB3	R702	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R704	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R707	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R708	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R709	C-CARBON R	RN72K1J-333JE	1	435033334R1	
PCB3	R710	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R711	C-CARBON R	RN72K1J-470JE	1	435034704R1	
PCB3	R712	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB3	R713	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB3	R714	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R715	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R716	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R717	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R718	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R732	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB3	R741	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB3	R742	C-CARBON R	RN72K1J-682JE	1	435036824R1	
PCB3	R743	C-CARBON R	RN72K1J-682JE	1	435036824R1	
PCB3	R744	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R745	C-CARBON R	RN72K1J-393JE	1	435033934R1	
PCB3	R746	C-CARBON R	RN72K1J-393JE	1	435033934R1	
PCB3	R747	C-CARBON R	RN72K1J-333JE	1	435033334R1	
PCB3	R748	METAL R	RNU1/2WCJ-2.2	1	453530224T	
PCB3	R749	C-CARBON R	RN72K1J-392JE	1	435033924R1	
PCB3	R2001	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R2002	C-CARBON R	RN72K1J-104JE	1	435031044R1	

PCB3	R2003	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R2004	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R2005	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R2006	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB3	R2007	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB3	R2008	C-CARBON R	RN72K1J-101JE	1	435031014R1	
PCB3	R2009	C-CARBON R	RN72K1J-101JE	1	435031014R1	
PCB3	R2010	C-CARBON R	RN72K1J-681JE	1	435036814R1	
PCB3	R2011	C-CARBON R	RN72K1J-105JE	1	435031054R1	
PCB3	R2012	C-CARBON R	RN72K1J-101JE	1	435031014R1	
PCB3	R2013	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R2014	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R2015	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB3	R2021	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB3	R2022	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB3	R2023	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R2024	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R2025	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB3	R2026	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB3	R2027	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R2028	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB3	R2029	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R2030	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB3	R2031	METAL O R	RS1/2WBJ-22	1	443522204T	
PCB3	R2032	METAL O R	RS1/2WBJ-22	1	443522204T	
PCB3	R2033	C-CARBON R	RN72K1J-220JE	1	435032204R1	
PCB3	R2034	C-CARBON R	RN72K1J-220JE	1	435032204R1	
PCB3	R2038	C-CARBON R	RN72K1J-220JE	1	435032204R1	
PCB3	R2039	C-CARBON R	RN72K1J-220JE	1	435032204R1	
PCB3	R2044	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB3	R2047	METAL O R	RS1/2WBJ-22	1	443522204T	
PCB3	R2051	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R2052	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R2054	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB3	R2055	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R2059	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R4001	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4002	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4003	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4004	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4005	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4006	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4007	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4008	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4009	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4016	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4017	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4018	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4019	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4020	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4021	C-CARBON R	RN72K1J-750JE	1	435037504R1	

PCB3	R4022	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4023	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4024	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4025	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4026	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4027	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4028	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4029	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4030	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4136	C-CARBON R	RN72K1J-330JE	1	435033304R1	
PCB3	R4150	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R4151	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R4152	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R4153	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R4154	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R4155	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R4156	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R4157	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R4158	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R4160	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4161	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4162	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4201	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4202	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4203	C-CARBON R	RN72K1J-750JE	1	435037504R1	
PCB3	R4204	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R4205	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R4206	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R4210	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R4211	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R4212	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R4213	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R4214	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R4215	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R6690	METAL O R	RS1/2WBJ-10	1	443521004T	
PCB3	R6691	METAL O R	RS1/2WBJ-390	1	443523914T	
PCB3	R6992	METAL O R	RS1/2WBJ-390	1	443523914T	
PCB3	R9001	METAL R	RNU2WCJ-3.3	1	452730334F	
PCB3	R9002	METAL R	RNU2WCJ-3.3	1	452730334F	
PCB3	R9003	C-CARBON R	RN72K1J-822JE	1	435038224R1	
PCB3	R9004	C-CARBON R	RN72K1J-333JE	1	435033334R1	
PCB3	R9005	METAL O R	RS1/2WBJ-220	1	443522214T	
PCB3	R9006	C-CARBON R	RN72K1J-822JE	1	435038224R1	
PCB3	R9010	METAL O R	RS1/2WBJ-82	1	443528204T	
PCB3	R9011	METAL R	RNU1/2WCJ-4.7	1	453530474T	
PCB3	R9012	C-CARBON R	RN72K1J-010JE	1	435030104R1	
PCB3	R9013	C-CARBON R	RN72K1J-010JE	1	435030104R1	
PCB3	R9014	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R9018	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB3	R9022	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB3	R9023	C-CARBON R	RN72K1J-682JE	1	435036824R1	

PCB3	R9024	C-CARBON R	RN72K1J-333JE	1	435033334R1	
PCB3	R9029	METAL R	RNU1/2WCJ-0.47	1	453534794T	
PCB3	R9035	METAL R	RNU2WCJ-1.8	1	452730184F	
PCB3	R9036	METAL R	RNU2WCJ-1.8	1	452730184F	
PCB3	RL6600	RELAY	NRL-2P5A-DC24-158	1	25065618	
PCB3	RL6600 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563A	
PCB3	RL6602	RELAY	NRL-2P5A-DC24-158	1	25065618	
PCB3	RL6602 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563A	
PCB3	RL6603	RELAY	NRL-2P5A-DC24-158	1	25065618	
PCB3	RL6603 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563A	
PCB3	P101A	SOCKET	NSCT-13P2106	1	25052209	
PCB3	P131	PIN JACK	NPJ-2PDOO626	1	25045847	
PCB3	P131 or	PIN JACK	NPJ-2PDO445	(1)	25045640	
PCB3	P302A	SOCKET	NSCT-14P2194	1	25052297	
PCB3	P303A	SOCKET	NSCT-14P2194	1	25052297	
PCB3	P304A	SOCKET	NSCT-3P2183	1	25052286	
PCB3	P701A	SOCKET	52492-3220	1	25053224	
PCB3	P751A	SOCKET	NSCT-9P2427	0	25052530	
PCB3	P2001	SOCKET	CAM-C16	1	25053104R2	
PCB3	P2002	SOCKET	YKF51-5397N	1	25053201	
PCB3	P2004A	PLUG	IMSA-9163B-10G	1	25056587A	
PCB3	P2004B	SOCKET	IMSA-9163S-10A	1	25053107	
PCB3	P2005A	PLUG	IMSA-9163B-16G	1	25056588A	
PCB3	P2005B	SOCKET	IMSA-9163S-16A	1	25053108	
PCB3	P2006A	PLUG	IMSA-9163B-04G	1	25056586A	
PCB3	P2006B	SOCKET	IMSA-9163S-04A	1	25053106	
PCB3	P4001	PIN JACK	NPJ-6PDGLRGLR646	1	25045871	
PCB3	P4002	PIN JACK	NPJ-6PDGLRGLR646	1	25045871	
PCB3	P4004	PIN JACK	NPJ-10PDBY621	1	25045842	
PCB3	P4004 or	PIN JACK	NPJ-10PDBY478	(1)	25045681	
PCB3	P4005	PIN JACK	NPJ-10PDBY621	1	25045842	
PCB3	P4005 or	PIN JACK	NPJ-10PDBY478	(1)	25045681	
PCB3	P4006	PIN JACK	NPJ-5PDBY622	1	25045843	
PCB3	P4006 or	PIN JACK	NPJ-5PDBY479	(1)	25045682	
PCB3	P6601	TRM	NTM-6PDMCWRG410	1	25060482	
PCB3	P6601 or	TRM	NTM-6PDMC392	(1)	25060463	
PCB3	P6602	TRM	NTM-4PDMCLE412	1	25060484	
PCB3	P6602 or	TRM	NTM-4PDMC397	(1)	25060469	
PCB3	E2001	TRM(SCREW)	NEJITANSI M3	1	25065425	
PCB3	E2002	TRM(SCREW)	NEJITANSI M3	1	25065425	
PCB3	E2003	RETAINER	(XM)	1	27142048	
PCB3	E9001	TRM(SCREW)	NEJITANSI M3	1	25065425	
PCB3	JL101	JUMPER LEAD	JL11 300 B	1	---	NSP
PCB3	JL101A	WIRE HOL	NSCT-11P882	1	25051095	
PCB3	JL101B	WIRE TRAP	NPLG-11P594	1	25055632	
PCB3	JL5502B	WIRE TRAP	NPLG-7P590	1	25055628	
PCB3	JL6402B	WIRE TRAP	NPLG-3P586	1	25055624	
PCB3	JL6600B	SOCKET	NSCT-7P99	1	25050271	
PCB3	JL6603B	SOCKET	NSCT-9P101	1	25050273	
PCB3	JL6605B	SOCKET	NSCT-5P97	1	25050269	
PCB3	JL8001	JUMPER LEAD	JL4 250 B	1	---	NSP

PCB3	JL8001A	WIRE HOL	NSCT-4P875	1	25051088	
PCB3	JL8002	JUMPER LEAD	JL3 250 B	1	---	NSP
PCB3	JL8002A	WIRE HOL	NSCT-3P874	1	25051087	
PCB3	JL901B	WIRE TRAP	NPLG-5P588	1	25055626	
PCB3	JL9101B	SOCKET	NSCT-6P98	1	25050270	
PCB3	A171	TAPE	TAPE(CLOTH-16U)	(1)	29110083	

PCB4 **U15** HDMI PC BOARD (NAHDM-9199-1B)

PCB4

	CIRCUIT NO.	PART NAME	DESCRIPTION	Q'TY	PART NO. (SN)	REMARKS
PCB4	Q8001	IC	S-812C50BUC-C5ET2G	1	22242407R2	
PCB4	Q8002	IC	BA33BC0FP	1	22278033DR2RH	
PCB4	Q8002 or	IC	UPC2933TAT-E1-A	(1)	22278033DR2NE	
PCB4	Q8002 or	IC	TA48033AF(TE16L_NQ)	(1)	22278033DR2TO	
PCB4	Q8003	IC	AD8196	1	22242408R2	
PCB4	Q8004	TR ARRAY	UM6K1N	1	226066R2	
PCB4	Q8004 or	TR ARRAY	UPA672T	(1)	226067R2	
PCB4	Q8005	IC	SI8008TM	1	22242323R2	
PCB4	D8001	C-DIODE	1SS226(TE85L_F)	1	223266R2	
PCB4	D8001 or	DIODE	DAN217T146	(1)	223285R2	
PCB4	D8002	C-DIODE	1SS226(TE85L_F)	1	223266R2	
PCB4	D8002 or	DIODE	DAN217T146	(1)	223285R2	
PCB4	D8003	C-DIODE	1SS226(TE85L_F)	1	223266R2	
PCB4	D8003 or	DIODE	DAN217T146	(1)	223285R2	
PCB4	D8004	ZENER D	UDZS5.6B	1	224550560R2	
PCB4	D8005	C-DIODE	1SS355	1	223269R2	
PCB4	D8005 or	C-DIODE	1SS352	(1)	223234R2	
PCB4	D8005 or	C-DIODE	KDS4148U	(1)	223283R2	
PCB4	D8005 or	C-DIODE	MA2J111	(1)	223279R2	
PCB4	D8006	C-DIODE	CRS09(TE85L_Q)	1	223274R2	
PCB4	L8001	CHOKE COIL	LBC2518T4R7M	1	231364M047R2	
PCB4	L8002	CHOKE COIL	LBC2518T2R2M	1	231364M022R2	
PCB4	L8003	CORE	DLP2ADN900HL4L	1	230990R2	
PCB4	L8004	CORE	DLP2ADN900HL4L	1	230990R2	
PCB4	L8005	CHOKE COIL	LBC2518T4R7M	1	231364M047R2	
PCB4	L8006	CHOKE COIL	NCH-2541	1	231363K470	
PCB4	L8007	CHOKE COIL	BLM21PG221SN1	1	230949R2	
PCB4	C8001	CHIP ELECT C	CEWT16V-470M	1	395744717R2	
PCB4	C8002	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8003	CHIP ELECT C	CEWX16V-22M	1	398142207R2	
PCB4	C8004	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB4	C8005	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB4	C8007	C-CERA C	CC725CH1H-471J1	1	342104714R1	
PCB4	C8008	CHIP ELECT C	CEWT16V-470M	1	395744717R2	
PCB4	C8009	CHIP ELECT C	CEWX4V-220M	1	3981G2217R2	
PCB4	C8010	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8011	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB4	C8012	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2	
PCB4	C8013	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8014	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8015	C-CERA C	CK725F1A-105Z1	1	332181050R1	

PCB4	C8016	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8017	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8018	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8019	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8020	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8021	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8022	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8023	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8024	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8025	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8026	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8027	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8028	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8029	CHIP ELECT C	CEWX4V-22M	1	3981G2207R2	
PCB4	C8030	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8031	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB4	C8032	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8033	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8034	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8035	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8036	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8037	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB4	C8038	C-CERA C	CK725F1A-105Z1	1	332181050R1	
PCB4	C8039	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB4	C8040	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB4	C8041	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB4	C8042	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB4	R8001	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB4	R8002	C-CARBON R	RN72K1J-562JE	1	435035624R1	
PCB4	R8005	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB4	R8006	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB4	R8007	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB4	R8008	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB4	R8009	C-CARBON R	RN72K1J-182JE	1	435031824R1	
PCB4	R8010	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB4	R8011	METAL R	RNU1/2WCJ-5.6	1	453530564T	
PCB4	R8012	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB4	R8013	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB4	R8019	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB4	R8020	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB4	R8021	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB4	R8022	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB4	R8023	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB4	R8024	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB4	R8025	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB4	R8026	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB4	R8027	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB4	R8028	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB4	R8029	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB4	R8030	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB4	R8031	C-CARBON R	RN72K1J-103JE	1	435031034R1	

PCB4	R8032	C-CARBON R	RN72K1J-152JE	1	435031524R1	
PCB4	R8034	C-CARBON R	RN72K1J-152JE	1	435031524R1	
PCB4	P8002	SOCKET	YKF45-7037V	1	25053253R3	
PCB4	P8003	SOCKET	YKF45-7037V	1	25053253R3	
PCB4	P8004	SOCKET	YKF45-7037V	1	25053253R3	
PCB4	JL8001B	WIRE TRAP	NPLG-4P587	1	25055625	
PCB4	JL8002B	WIRE TRAP	NPLG-3P586	1	25055624	

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